



# 2016 INDEX

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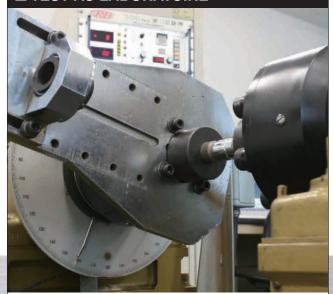
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- TEST AND LABORATORY
- **TESTLABOR** 
  - TEST AU LABORATOIRE



Ko-ken uses a variety of test equipment.

Strength is measured by the Static Load Test Machine that can measure torque load up to 5,000Nm. Durability is measured by the Cyclic Test Machine and corrosion resistance testing is done by the Salt Spray Test Machine. The test results are used to improve our standard products and assist with new product design and development.

Wir verfügen über die verschiedensten Testgeräte:

- -Die Festigkeitseigenschaften der Werkzeuge werden mit einer statischen Drehmoment-Testmaschine, die Prüfdrehmomente bis 5.000Nm erzeugen kann, überprüft.
- -Die Dauerbelastbarkeit wird mit einer Testmachine durchgeführt mit der die Werkzeuge zyklisch in langen Testreihen belastet werden.
- Der Korrosionsschutz wird regelmäßig mittels Salzsprühnebelprüfung kontrolliert.

Die gewonnenen Testergebnisse ermöglichen eine stetige Verbesserung der Standardwerkzeuge und helfen bei der Entwicklung neuer Produkte.

Ko-ken utilise plusieurs types de tests.

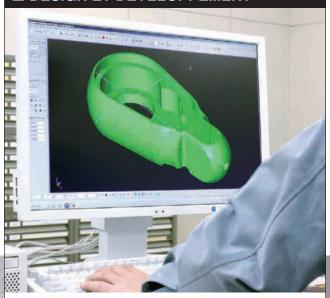
La résistance est mesurée par une installation de test à charge statique d'une capacité de 5.000 Nm. La durée de vie est déterminée par une machine à cycles et la résistance à la corrosion par une installation à

projection de sel.

Les résultats de ces tests sont destinés à améliorer nos produits standards et à assister au développement de nouveaux produits.



- DESIGN AND DEVELOPMENT
- ENTWICKLUNG UND DESIGN
- DESIGN ET DEVELOPPEMENT



The 3D-CAD is used to improve standard products, designing new products and making customized items for special requirements. Trial products are regularly developed, manufactured and tested to improve the durability, appearance and functionality of all tools produced by Ko-ken.

3D-CAD Programme helfen uns sowohl, bei der Weiterentwicklung unserer Standardwerkzeuge, als auch beim Designen neuer Produkte und beim Entwerfen von Sonderanfertigungen.

Um die Zuverlässigkeit und Funktionalität unserer Werkzeuge zur verbessern, werden ständig Versuchswerkzeuge gefertigt.

La technique CAD-3D est utilisée pour l'amélioration des produits standards, le design des nouveaux produits et la réalisation d'outils spéciaux.

Des séries d'essai sont régulièrement développées, fabriquées et testées pour améliorer l'apparence et la fonctionnalité de tous les produits Ko-ken.



- **■** FORGING
- SCHMIEDEN
- FORGEAGE



The Forming machines are used for the forging process. These machines can produce mass quantities of sockets and parts with high accuracy that ordinary drop forging machines can not achieve. However, ordinary forging machines are also used for small production runs.

Zum Schmieden verwenden wir eigene Umformmaschinen.

Diese Maschinen werden zur Produktion großer Stückzahlen von Steckschlüsseln und Betätigungswerkzeugen verwendet mit einer Genauigkeit, die mit normalen Gesenkschmiede Maschinen nicht gewährleistet werden kann.

Bei kleineren Fertigungsserien werden zur Fertigung auch kleinere Gesenkschmiedemaschinen verwendet.

Des machines de formage à froid sont utilisées. Ces machines peuvent produire en masse les douilles et accessoires avec une précision supérieure à la forge

conventionnelle. Toutefois, pour des petites séries, des machines à forger traditionnelles sont également utilisées.







- **TURNING**
- **■** DREHEN
- **TOURNASAGE**



The forged steel is turned into required shapes and dimensions. The MC (Machining Center) operates with extraordinary speed and precision. The article number, size, logo, production number, and MADE IN JAPAN are marked on the products after the turning process has been completed.

Der geschmiedete Stahl wird nun auf die endgültige Form abgedreht.

Unser Maschinenzentrum arbeitet hier mit außergewöhnlicher Geschwindigkeit und Präzision.

Nach dem Drehvorgang wird das Werkzeug mit Artikelnummer, Abmessung, Logo, Produktionsnummer und MADE IN JAPAN markiert.

Après la forge, les pièces sont usinées à la bonne dimension par tournage. Les centres d'usinage travaillent avec une précision et une vitesse extraordinaire.

Le numéro d'article, la dimension, le logo Ko-ken, un numéro de production ainsi que la mention « Made in Japan » sont gravés sur le produit après tournage.





- HEAT TREATMENT
- HÄRTEN ■ DURETE



To make the tools stronger and more durable, proper heat treatment is critically important. The temperature and the time of the heat treatment are strictly regulated by a very accurate control device.

Um die optimale Stabilität und Festigkeit der Werkzeuge zu erreichen ist der Härtungsprozess der Werkzeuge von höchster Wichtigkeit.

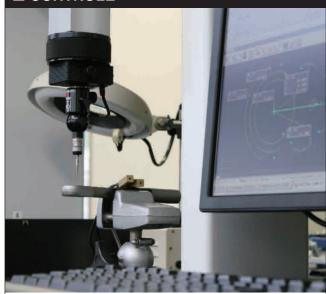
Die hohe Genauigkeit von Temperatur- und Dauer der Wärmebehandlung werden durch sehr genaue Regeleinrichtungen in den Härteöfen erreicht.

Pour la résistance et la dureté de l'outil, un traitement thermique adapté est indispensable. Les températures et la dureté de traitement sont très précisément contrôlées.





- **INSPECTION**
- MESSEN UND PRÜFEN
- **CONTRÔLE**



Our products are periodically checked at each production process by inspection devices. Highly accurate 3-D measuring instruments are used to inspect and confirm dimensions.

Unsere Produkte werden periodisch nach jedem Produktionsprozess überprüft.

Hierzu verwenden wir sehr genaue 3D Messgeräte.

Nos produits sont contrôlés périodiquement à chaque étape de leur fabrication.

Des instruments de mesure en 3D, très précis sont employés pour la vérification des dimensions.





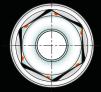




#### **FLAT DRIVE®**







Flat Drive is designed to guarantee a flat surface contact between the socket and the bolt/nut.

The Flat contact reduces wear and allows to transmit a higher torque value.

The Flat Drive System is also used for the square drive end as well as the hexagonal or bi-hexagonal openings of the socket.

Das Flat Drive Design sorgt für die optimale Kraftübertragung zwischen den Flächen des Steckschlüssels und der Schraube. Dies erlaubt eine Übertragung von höheren Drehmomenten. Das Flat Drive System findet ebenfalls bei allen Antriebsvierkanten sowie bei 6-kant und 12-kant Profilen Verwendung.

Le profil Flat Drive garantit un contact optimal entre la douille et l'écrou. Ce contact « à plat » réduit l'usure et permet la transmission d'un couple plus élevé. Ce système Flat Drive est utilisé pour tous les carrés conducteurs ainsi que pour toutes nos douilles 6-pans et 12-pans.

## O

## SOCKETS STECKSCHLÜSSEL DOUILLES

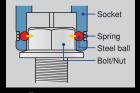


#### **NUT GRIP®**





Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.



Die zwei Kugeln in der 6-kant Öffnung unserer NUT GRIP Steckschlüssel halten die Schraube sicher im Steckschlüssel. Dies erlaubt ein Arbeiten auch an schwer zugänglichen Stellen.

Les 2 billes dans l'ouverture du 6-pans de la douille retiennent l'écrou de manière sûre et efficace.

#### **SURFACE DRIVE**





Surface drive sockets are designed to retain contact with the flat sides of the nut in order to transmit higher torque and reduce nut wear.



These sockets are ideal for using on polished nuts, aluminum nuts and nuts with worn out points.

Das Profil unserer Surface-Drive Steckschlüssel greift die Schraube an deren Flächen.

Dies sichert eine höhere Kraftübertragung und verhindert ein Durchrutschen des Steckschlüssels. Diese Steckschlüssel eignen sich besonders für polierte Schrauben, Aluminium Schrauben und Schrauben bei denen die Ecken bereits abgerundet sind.

Notre profil Surface Drive assure le contact entre la douille et les plats de l'écrou. Ceci réduit l'usure et permet la transmission d'un couple plus élevé. C'est une solution idéale pour les écrous polies, celles en aluminium ou arrondies.

#### **PATHFINDER®**





The beveled flats of the 6-point opening of the PATHFINDER socket engage the nut almost immediately. PATHFINDER sockets are ideal for using with power tools in automatic assembly processes, as the power tool does not have to be totally stopped for the socket to engage the nut.

Da die Maschine nicht nach jedem Schraubvorgang angehalten werden muss, ergibt sich eine erhöhte Produktivität, die sich bei vollautomatischen Maschinen (Mehrspindelschrauber) ganz besonders auswirkt.

Les parois en biais du 6-pans des douilles PATHFINDER assurent l'engagement quasi immédiat de l'écrou. Le fait de ne pas devoir arrêter la machine après chaque serrage procure un gain de productivité particularité appréciable dans les chaînes de montage automatiques.

## RATCHET HANDLE KNARRENGRIFFE MANCHE À CLIQUET







#### **Three-Step Dog**

par rapport aux systèmes à une seule dent .

Two dogs are set in the same axis, and the three teeth hold the ratchet gear.

The enlarged contact area produces an about 10% higher torque value and the S.O.D.H-System provides smooth and light movements.

Die scharnierartig eingelagerten Sperrklinken haben jetzt jeweils drei Zähne im Eingriff. Die dadurch vergrößerte Greiffläche erhöht das maximale Drehmoment um ca. 10%. Auch diese Knarre besticht durch ihren leichten und geschmeidigen Lauf.

Les deux rochets étant placés sur le même axe, les trois dents de l'engrenage sont engagées en permanence. Ce système assure une augmentation de 10% du couple maximum admissible. Ce cliquet se caractérise également par son fonctionnement souple et sans à-coup.





# OVAL Shank

#### **OVAL SHAPE SHANK**

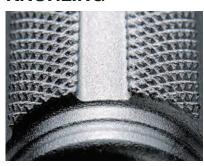


Unique designed oval shape shank provides extra strength and durability.

Der einzigartige ovale Schaftquerschnitt in Belastungsrichtung erhöht die Stabilität und Widerstandsfähigkeit.

La section ovale, orientée dans le sens de l'effort, confère à cet outil une résistance et une durée de vie incomparable.

#### KNURLING



Rotation and general handling of extensions with oily hands is greatly improved with the **Koken** developed 6 point knurling. Also the **Koken** 6 point knurling stops the extensions from rolling around the work area.

Durch die von **Koken** entwickelte 6 fache Rändelung wird die Handhabung deutlich erleichtert.

Außerdem wird das Herumrollen der Verlängerungen wirksam verhindert.

La manipulation des rallonges est grandement facilitée par le profil moleté développé par **Koken**. Ce même profile empêche le roulement intempestif des rallonges sur le plan de travail.



#### **WOBBLE-FIX**



#### **TWO WAY USAGE**

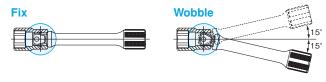
- a) In a fixed position, as a normal extension bar
- b) In a half-fixed position, as a flexible extension bar providing a  $15^{\circ}$  angle operation.

#### Winkelverlängerungen lassen sich in zwel Einstellungen verwenden

- a) voll eingesteckt und starr
- b) halb eingesteckt, mit einem Arbeitswinkel von 15°.

#### Deux utilisations possibles

- a) comme rallonge normale, dans une position fixe
- b) comme une rallonge angulaire avec une possibilité d'inclinaison jusqu'à 15°



# STUD BOLT PULLER / SETTER STEHBOLZENAUSDREHER UND STEHBOLZENSETZER EXTRACTEURS DE GOUJONS



#### STUD BOLT PULLER STEHBOLZENAUSDREHER DEGOUJONNEUSES



Hexagon body design can lessen the excessive load on cages and rollers inside the pullers.

Der neue Körper mit sechs Walzenmulden verteilt den Druck auf den Käfig und die Walzen weitaus vorteilhafter.



La forme hexagonale du corps améliore les tolérances.

Elle répartit l'effort de façon plus uniforme sur la cage et les rouleaux.

#### STUD BOLT SETTER STEHBOLZENSETZER MONTE-GOUJONS



A special socket for installing a stud bolt.

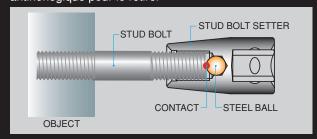
Inside steel ball prevent the stud bolt stuck onto the socket. After installing a stud bolt, turn to anti-clockwise to removing the socket.

Spezialwerkzeug zum Setzen von Stehbolzen. Der Bolzen trifft im Werkzeug nur auf den Stahlbolzen, was die Kontaktfläche verringert. Nach dem Setzen des Stehbolzens kann das Werkzeug im Linkslauf vom Stehbolzen abgezogen werden.

Douilles spéciales pour monter les goujons.

Le goujon est en contact avec une bille d'acier pour l'empêcher d'adhérer à la douille.

Après avoir posé le goujon, tourner dans le sens antihorlogique pour le retirer





#### Black Finish - Schwarze Schlagplatte - Tête de frappe noire



Black finished head prevents peeling off the chrome plate by striking the head.

Der Schlagkopf wurde geschwärzt, um das Abblättern von Chrompartikeln zu verhindern.

La finition noire de la tête évite l' écaillage du chrome lors de la frappe.

#### 2 Original Body Shape - Einzigartige Formgebung - Forme unique du corps



Original design of the body achieved higher grip. And, total length became 20mm longer than previous model to improve the handling.

Die Gestaltung des Handschlagschrauberkörpers erhöht Führung und Griffigkeit des Werkzeuges. Le dessin original du corps permet une meilleure prise en main de l' outil.

#### 13 Heat Treatment - Wärmbehandlung - Traitement thermique

Special heat treatment is applied on the body. Hardness of striking part is slightly softer to prevent cracks. On the other hand, Cam part converts the striking power to twisted by striking with hammer, therefore, this part is finished with higher hardness to improve anti-wear.

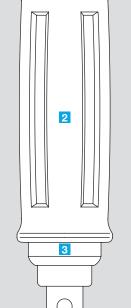
Besondere Aufmerksamkeit wurde der Warmbehandlung des Körpers gewidmet, indem die Härte des Schlagendes leicht verringert wurde, um ein Reissen durch Hammerschläge zu vermeiden. Dagegen wurde die Härte und somit die Belastbarkeit in dem Teil des Körpers erhöht, wo der Schlag in Drehkraft umgesetzt wird.

Un traitement thermique spécifique est appliqué sur le corps de l' outil. La dureté des parties de frappe est légèrement inférieure pour diminuer le risque de casse. D' un autre côté, le mécanisme qui transforme la force de frappe en rotation est plus dure pour augmenter la résistance à l' usure.

#### Spring - Feder - Ressort

Stronger spring is adapted to convert the striking power efficiently to twisting power. Eine extrem widerstandsfähige Feder sorgt für die unmittelbare Übertragung der Schlagkraft und ihre Umsetzung in wirksame Drehkraft.

Un ressort très résistant est monté sur l' outil pour convertir la force de frappe en force de torsion très efficace.



// 1 \\



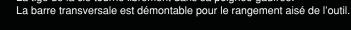


bar is removable for easy storage in a compact space.

Der Schaft des Kreuzschlüssels dreht sich frei in dem kordierten Griff. Die Querstange kann entnommen werden, das erlaubt eine platzsparende Aufbewahrung (z.B. im Fahrzeug)

La tige de la clé tourne librement dans sa poignée gaufrée.





## **FLEXIBLE SPEEDER** GELENKGRIFF-WINDE VILEBREQUIN RAPIDE

Free-turn grip allows speedy removal or replacement of wheel nuts. It can also be used as a hinge handle to tighten or loosen the nuts.

Der frei laufende Griff ermöglicht eine schnelle Radmontage. Das Werkzeug kann zusätzlich als Gelenkgriff verwendet werden.

La poignée à rotation libre permet l'enlèvement et la pose rapide des écrous de roue.

Elle peut également être utilisée comme poignée articulée.





#### SPINNING SLIDE T-HANDLE FREILAUF T-GRIFF POIGNEE EN T RAPIDE

The knurled grip is attached in the middle of shaft for free turning. Oval shaped cross bar prevents the bar from turning inside the shaft during

Der kordierte Freilauf-Griff befindet sich in der Mitte des Schaftes. Der Quergriff mit ovalem Querschnitt verhindert das Verrutschen.

La poignée gaufrée est fixée au milieu de la tige et est à rotation libre. La barre transversale est de forme ovale pour l'empêcher de tourner pendant l'utilisation.



## IMPACT WHEEL NUT SOCKET IMPACT RADMUTTERN STECKSCHLÜSSEL DOUILLES POUR ÉCROUS DE ROUE, IMPACT



#### PLASTIC PROTECTOR KUNSTSTOFF HÜLSE PROTECTION EN PLASTIQUE

A detachable plastic protector is fitted to the socket to prevent damage to the wheel when working in tight areas.

The socket size and Ko-ken Mark printed on the shaft makes it easier to see if the socket is still rotating or stopped.

Zum Schutz empfindlicher Leichtmetallfelgen ist eine drehbare und abnehmbare Kunststoff Hülse an dem Steckschlüssel montiert. Die aufgedruckten Markierungen Werkzeugschaft zeigen außerdem ob das Werkzeug steht oder rotiert.

La douille est pourvue d'un insert en plastique détachable. Il sert à prévenir tout dommage aux jantes lors de l'utilisation des douilles.

Le marquage sur la tige rend l'identification des douilles très facile.

Thin-walled shape and 110mm length gives extra reach for nuts recessed deep inside the wheel.

They are ideal for aluminum wheel nuts where access to nut is very tight. Color coded shafts make size identification easy.

## SPARK PLUG SOCKET ZÜNDKERZEN STECKSCHLÜSSEL **DOUILLES AVEC RESSORTS RETENUE POUR BOUGIES**

#### **CLIP TYPE**

This revolutionary new spark plug socket is designed to securely grip a spark plug at its hexagonal part by two stainless spring clips.

An internal brass guide holds the clips in place, which ensures perfect alignment of the spark plug into the threaded plughole of the cylinder head, thus preventing thread damage.

The brass guide also eliminates stress loading and possible damage to the ceramic insulator of the spark

Zwei solide Federn aus rostfreiem Stahl fassen den Sechskant der Zündkerze und drücken ihn an den Anschlag der Messing-Führungsbuchse. Jetzt sitzt die Kerze genau senkrecht zur Achse des Steckschlüssels. Das Einschrauben kann ohne Beschädigung der Gewindegänge im Motorblock und ohne Druck auf den Isolator der Kerze erfolgen.

Deux puissants ressorts en acier inoxydables maintiennent la bougie sur sa partie hexagonale tout en l'appliquant contre la douille de guidage en laiton. L'alignement parfait de la bougie dans l'axe de l'outil permet à l'opérateur de poser celle-ci avec beaucoup de précision en réduisant au maximum les risques d'endommagement au filetage du bloc ainsi qu'à la partie en céramique de la bougie.



#### License / Lizenzen / Licence

## TORX / TORXplase & LHStix

TORX\*/ TORX\*\* and LHStix\* are recognized as three of the most efficient fastening systems because of their ability to transfer greater torque, reduce end load and virtually eliminate tool slippage.

Durch die Fähigkeit größere Drehmomente zu übertragen sind TORX/IORX und LHStix bekannt als die drei effizientesten Befestigungssysteme.

TORX\*/IORX\*\* et LHStix\* sont reconnus comme étant trois systèmes de vissage particulièrement efficaces. Ils permettent en effet de transmettre des couples particulièrement élevés.

#### TORX® & TORX plus®





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#### Ko-ken Factory / Das Ko-ken Werk / L'usine Ko-ken



#### Warranty / Garantie / Garantie

#### WARRANTY

The trade mark **Koken** is your unqualified warranty against any defect in material or workmanship. Each **Koken** tool is built to more than meet the requirements of its intended use and is carefully checked before leaving the factory. Any **Koken** tool which fails because of defective material or workmanship will be repaired or replaced through your **Koken** dealer, to the exclusion of any further liability.

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#### ISO9001







- (a) Make sure you use the right type socket, whose opening fit the nut.
  - Verwenden Sie immer den richtigen Steckschlüssel und überzeugen Sie sich davon, ob er auch auf die Mutter passt. Utilisez toujours la bonne clé et assurez-vous qu'elle est rigoureusement adaptée à l'écrou.
- (b) For use on electric or air IMPACT Wrenches select IMPACT Sockets only.
  - Auf elektrischen oder pneumatischen Schlagschraubern dürfen nur hoch belastbare IMPACT-Steckschlüssel und Zubehörteile gesteckt werden.
  - Sur des vis à fixer par machines à chocs pneumatiques ou électriques n'utilisez que des clés à douille IMPACT et des accessoires IMPACT capables de résister à une haute sollicitation.
- (c) When using nut runners or IMPACT Wrenches wear safety goggles.
  - Tragen Sie bei der Anwendung von Schraubern stets eine Schutzbrille.
  - En opérant avec des visseuses et des machines à chocs, portez toujours des lunettes de protection.
- (d) Plastic or rubber handles are not intended to act as insulation.
  - Plastik-oder Gummigriffe stellen keinen Isolierschutz dar.
  - Les poignées en plastique ou en caoutchouc ne garantissent aucune isolation électrique.
- (e) Never substitute a HAND Socket for a INDUSTRIAL Socket or an IMPACT Socket, or a INDUSTRIAL Socket for an IMPACT Socket
  - Nehmen Sie deshalb niemals anstelle eines INDUSTRIAL-oder IMPACT-Werkzeuges ein HAND-Werkzeug oder anstatt eines IMPACT-Werkzeuges ein INDUSTRIAL-Werkzeug.
  - Ne vous servez donc jamais d'un outil à main au lieu d'un outil INDUSTRIAL ou IMPACT ou d'un outil INDUSTRIAL au lieu d'un outil IMPACT
- (f) Items in this catalogue marked △ can be loaded to torque values which may cause breakage. In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.
  - Die mit 🛕 gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch, und damit verbundene mögliche Verletzungen zu vermeiden.
  - Il est possible d'appliquer aux articles marqués ▲ des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Céci pour éviter ruptures et accidents.
- (g) Make sure to lock the impact sockets on driving tools with Pin / O-Ring or C-Ring.
  - Verwenden Sie Impact Steckschlüssel nie ohne Sicherungsring und Stift oder alternativ mittels unserer C-Ringe.
  - Ne jamais utiliser de douille à choc sans sécurité. (Anneau et goupille ou crochet en C)

#### Sockets / Steckschlüssel / Douilles

Sockets showing cracked walls, battered points or other marks of wear are to be replaced.

Steckschlüssel mit Haarrissen, abgestossenen Kanten oder mit anderen Verbrauchserscheinungen sind umgehend zu ersetzen

Les clés qui présentent des fissures capillaires, ou autres signes d'usure doivent être immédiatement changées.

#### Ratchets/Handles / Knarren/Griffe / Cliquets/Poignées

A ratchet is not a hammer.

Eine Knarre ist kein Hammer.

Un cliquet n'est pas un marteau.

Never use loose pipes or other improvised attachments on handles for increased leverage.

Setzen Sie niemals lose Rohre oder andere Hilfsstücke auf Steckschlüsselgriffe, um dadurch eine höhere Drehkraft zu erzeugen.

Ne mettez jamais de tubes ou autres pièces auxiliaires sur les poignées des clés à douille dans le but d'obtenir un couple de serrage plus éleve.

#### Extension Bars / Verlängerungen / Rallonges

The combination of several short extensions instead of one correct sized one is to be avoided.

Das Zusammenstecken von mehreren kurzen Verlängerungen als Ersatz für eine in der richtigen Länge ist unbedingt zu vermeiden.

Il faut absolument éviter d'utiliser plusieurs rallonges courtes au lieu d'une seule ayant la bonne longueur.

#### Adaptors / Verbindungsstücke / Réducteurs

Adaptors are to be used reasonably. Be reminded that high torque potentials are reached when using a "down" adaptor, a bigger sized handle to a smaller drive socket. Always stay within safe limits.

Reduzierstücke sind mit Vernunft einzusetzen. Beachten Sie, dass bei der Verwendung von Reduzierstücken hohe Drehmomentwerte ausgelöst werden nämlich dadurch, dass grössere Griffe auf kleinere Steckschlüssel gesetzt werden. Bleiben Sie jeweils innerhalb der Sicherheitsgrenzen.

Les réducteurs doivent être utilisés avec modération. Il est à considérer qu'avec les réducteurs on obtient un couple de serrage élevé du fait que des poignées plus grandes sont appliquées sur des clés à douille plus petites. Ne dépassez pas les limites de sécurité.





SAFETY ADVISER

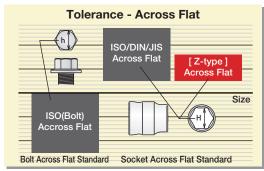
SICHERHEITS-Ratgeber

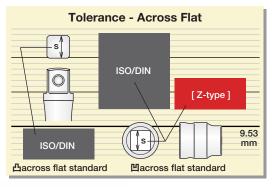
> MESURES De sécurité

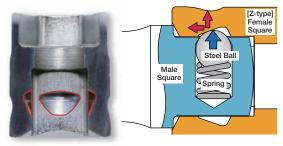


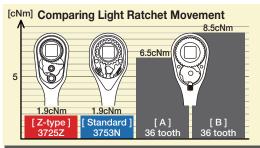
#### **Z-Series: Feature**

[Z-type] [Standard] 3400MZ-10 [Standard] 3400MZ-10









\* A, B : Other Brand

#### **COMPACT**

2400MZ and 3400MZ are designed 5-9mm shorter than standard 2400M and 3400M which is ideal for working in confined and tight areas.

2400MZ und 3400MZ sind gegenüber unseren Standardausführungen 2400M und 3400M um 5-9mm kürzer. Dies erlaubt ein Arbeiten an schwer zugänglichen Stellen.

Les douilles 2400MZ et 3400MZ étant plus courtes de 5-9mm par rapport aux douilles standards, elles ont l'avantage de faciliter le travail dans des endroits étroits et difficilement accessibles.

#### **TOLERANCE-Hexagon Opening**

The Hexagon openings of our Z-Sockets are produced with reduced tolerances (according to DIN/ISO) which achieve a more positive fit between bolt and socket.

Die Steckschlüsselöffnungen der Z-Serie werden mit geringeren Toleranzen (nach DIN/ISO) gefertigt um eine bessere, direktere Verbindung zwischen Schraube und Werkzeug zu gewährleisten.

Les douilles Ko-ken de la série Z sont fabriquées selon DIN/ISO comme toutes les douilles standards. Sauf que pour la série Z les tolérances sont plus restreintes afin d'atteindre un meilleur ajustement entre douille et vis.

#### **TOLERANCE-Square Drive**

To ensure a tighter fit between socket and handle, the male and female square drives are produced with shorter tolerances (according DIN/ISO).

Auch die Antriebsvierkante sind mit einer geringeren Toleranz (nach DIN/ISO) gefertigt um eine festere Verbindung zwischen Betätigungswerkzeug und Steckschlüssel zu ermöglichen.

Aussi les carrés mâles et femelles sont fabriqués avec des tolérances plus restreintes (selon DIN/ISO) afin de garantir une meilleure fixation entre cliquet et douille.

#### **BALL HOLDING GROOVE**

The inventive Ball Holding system of the Z-series allows a secure connection between Socket and Handle.

Die Werkzeuge der Z-Serie verfügen über spezielle Kugelfangrillen, die eine noch sicherere Verbindung zwischen Betätigungswerkzeug und Steckschlüssel gewährleisten.

La série Z dispose d'une rainure de fixation pour bille spéciale, qui améliore nettement la fixation entre douille et cliquet.



#### **RATCHET HANDLE**

Smaller head with 36 tooth gear and light ratchet movement allow working in narrow spaces and confined areas.

Der schmalere Knarrenkopf, mit leicht gängigem 36-Zahn Getriebe erlaubt ein Arbeiten an engen schwer zugänglichen Stellen.

La tête de cliquet réduit et un méchanisme à 36 dents plus léger facilite le travail dans des endroits difficilement accessibles.

# Series-Z

2400MZ (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
4	6.4	11	3	14	6	10
4.5	7	11	3	14	6	10
5	7.6	11	3	14	6	10
5.5	8.2	11	3.5	14	6	10
6	8.8	11	3.5	14	6	10
7	9.9	11	3.5	14	6	10
8	11.1	11.7	4.5	15	7	10
10	13.5	12.5	7	15	8	10
11	14.7	13.2	7	15	9	10
12	15.9	14.4	7	15	11	10
13	17.1	15.6	7	15	14	10
14	18.3	16.8	7	15	16	10

RS2400MZ/12 12 Pieces Set/Rail 200mm	₫₫ (g)
4, 4.5, 5, 5.5, 6, 7, 8, 10, 11, 12, 13, 14	228

	2300XZ (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫ <u>¯</u> Д (g)	(pcs.)
New	5.5	8.2	11	6	20	30	10	10
New	6	8.8	11	7	20	30	10	10
New	7	9.9	11	8	20	30	11	10
New	8	11.1	11.7	9	20	30	13	10
New	10	13.5	12.5	11	20	30	16	10
New	11	14.7	13.2	12	20	30	19	10
New	12	15.9	14.4	13	20	30	22	10
New	13	17.1	15.6	14	20	30	26	10
New	14	18.3	16.8	14	20	30	30	10

	RS2300XZ/9	9 Pieces Set/Rail 200mm	Д¯Д (g)
New	5.5, 6, 7, 8, 10, 1	1, 12, 13, 14	290

2300MZ (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
4	6.4	11	5	41	50	14	10
4.5	7	11	5.5	41	50	16	10
5	7.6	11	6	41	50	16	10
5.5	8.2	11	6.5	41	50	16	10
6	8.8	11	7	41	50	17	10
7	9.9	11	8	41	50	20	10
8	11.1	11.7	9	41	50	22	10
10	13.5	12.5	11	41	50	29	10
11	14.7	13.2	12	41	50	33	10
12	15.9	14.4	13	41	50	40	10
13	17.1	15.6	14	41	50	45	10
14	18.3	16.8	16	41	50	51	10

RS2300MZ/12	12 Pieces Set/Rail 200mm	₫∄ (g)
4, 4.5, 5, 5.5, 6, 7	, 8, 10, 11, 12, 13, 14	445



RS2400MZ/12 ()



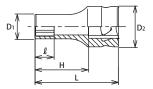
Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant



2300XZ ()



6-point Sockets, Semi-Deep 6-kant Steckschlüssel, mittel-lang Douilles, semi-profondes 6-pans





RS2300XZ/9



Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant ШШ

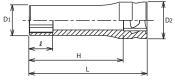


2300MZ



6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans





RS2300MZ/12 ()

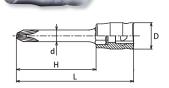


Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant



ШШ





2000Z-28 (PH)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
1	11.2	12	28	9	10
2	11.2	12	28	10	10
3	11.2	12	28	10	10

	2000Z-50 (PH)	D (mm)	d (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
New	1	11.2	4	34	50	11	10
New	2	11.2	5	34	50	13	10
New	3	11.2	-	34	50	16	10

2005Z-25 **←** 

Bit Sockets for Slotted Head Steckschlüssel für Schlitzschrauben Douilles tournevis pour vis à fente



•	
' <del>                                      </del>	
<sub>≼</sub> W <sub>&gt;</sub>	H

2005Z-25	T × W (mm)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
5	$1.0 \times 5.5$	11.2	9	25	9	10
6	$1.2 \times 6.5$	11.2	9	25	10	10

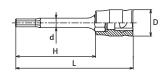
2010MZ-25/-50 •



Inhex Bit Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux



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The second			
		10	



2010MZ-25 (mm)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
3	11.2	9	25	9	10
4	11.2	9	25	9	10
5	11.2	9	25	10	10
6	11.2	9	25	10	10

	2010MZ-50 (mm)	D (mm)	d (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
New	3	11.2	4	34	50	11	10
New	4	11.2	5	34	50	13	10
New	5	11.2	6	34	50	15	10
New	6	11.2	-	34	50	17	10

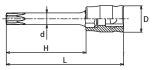
RS20XXZ/9	$\bigoplus$	Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant

RS20XXZ	Z/9	9 Pieces Set/Rail 200mm	(g) T_
2000Z.28	1, 2, 3		
2005Z.25	5, 6		213
2010MZ.25	3, 4, 5, 6		





1/4"



2025Z-28/-50 <b>(*)</b>	TORX® Bit Sockets TORX® Bit-Steckschlüssel Douilles tournevis,TORX®
d H	

RS2025Z/7-L28	7 Pieces Set/Rail 200mm	₫∄ (g)
T10, T15, T20,	T25, T27, T30, T40	195
RS2025Z/7-L50	7 Pieces Set/Rail 200mm	₫Ъ (g)
T10, T15, T20,	220	

2025Z-28 (T) T10

T15

T20

T25

T27

T30

T40

2025Z-50

T10

T15

T20

T25

T27

T30

T40

11.2

11.2

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11.2

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D (mm)

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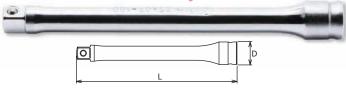


Flexible Ratchet, Reversible (Short) Gelenk-Knarre kurz, verstellbar Cliquet articulé court, réversible 2726Z



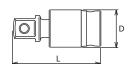
2760Z-50/-100/-150

Extension Bars Verlängerungen Rallonges



Universal Joint Gelenk-Einsatz Cardan universel **2771Z** 





2756Z

Quick Spinner Rändel-Drehscheibe Lanceur

2756Z-3/8

Quick Spinner, Adaptor Rändel-Drehscheibe als Adaptor Lanceur, adapteur



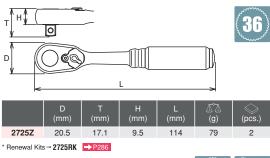


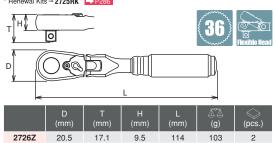
2756Z-3/8

Set in PE-foam tray Steckschlüsselsatz in Weichschaumeinlage Set disposé dans boîte de rangement en mousse souple P2285Z





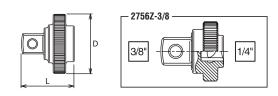




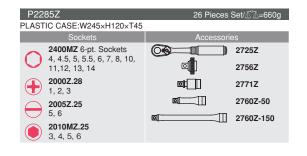
\* Renewal Kits → 2725RK → P286

2760Z	D (mm)	L (mm)	₫∄ (g)	(pcs.)
50	11.5	50	21	10
100	11.5	100	39	10
150	11.5	150	58	10

	D (mm)	L (mm)	Ø∄ (g)	(pcs.)
2771Z	11.7	29.9	15	10



	D (mm)	L (mm)	ДĨД (g)	(pcs.)
2756Z	20.3	18	15	10
27567-3/8	20.3	21.5	24	10



2285ZE	10 Pieces Set/௴∄=300g
Rail 200mm/PLASTIC BAG	
Sockets	Accessories
<b>2400MZ</b> 6-pt. Sockets 5.5, 6, 7, 8, 10, 12, 13, 14	2725Z

3400MZ (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
5.5	8.5	17	3.5	19	16	10
6	9.1	17	3.5	19	17	10
7	10.3	17	3.5	19	17	10
8	11.5	17	4.5	20	17	10
10	14	17	4.5	20	18	10
11	15.3	17	5.5	21	18	10
12	16.5	17	5.5	21	19	10
13	17.8	17	8.5	21	19	10
14	19	17	8.5	21	20	10
15	20.2	18.2	8.5	21	24	10
16	21.3	19.3	8.5	21	28	10
17	22.5	20.5	8.5	21	32	10
18	23.6	21.6	9.5	22	38	10
19	24.8	22.8	9.5	22	41	10
21	27	25	10.5	23	51	10
22	28.3	26.3	10.5	23	58	10

3400MZ is designed 5-9mm shorter than standard 3400M.

RS3400MZ/8	8 Pieces Set/Rail 200mm	Д¯Д (g)		
8, 10, 11,	12, 13, 14, 17, 19	320		
RS3400MZ/12	12 Pieces Set/Rail 300mm	Д¯Д (g)		
7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19				

	3300XZ (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	ДД (g)	(pcs.)
New	7	10.3	17	8	23	35	23	10
New	8	11.5	17	9	23	35	24	10
New	10	14	17	11	23	35	26	10
New	11	15.3	17	12	23	35	28	10
New	12	16.5	17	13	23	35	29	10
New	13	17.8	17	14	23	35	32	10
New	14	19	17	16	23	35	34	10
New	15	20.2	18.2	16	23	35	40	10
New	16	21.3	19.3	16.5	23	35	45	10
New	17	22.5	20.5	16.5	23	35	50	10
New	18	23.6	21.6	16.5	23	35	56	10
New	19	24.8	22.8	18	23	35	60	10

	RS3300XZ/8	8 Pieces Set/Rail 200mm	Д̈́Д (g)
New	8, 10, 11, 12	, 13, 14, 17, 19	420
	RS3300XZ/12	12 Pieces Set/Rail 300mm	₫Д (g)
New	7, 8, 10, 11, 12, 13,	14, 15, 16, 17, 18, 19	630

#### 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans 3400MZ ()



## RS3400MZ/8 RS3400MZ/12



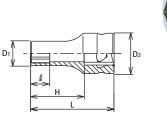
Socket Set on magnetic Rail
Steckschlüsselsatz auf Magnetschiene
Jeu de douilles sur rail à aimant



#### 3300XZ ()



6-point Sockets, Semi-Deep 6-kant Steckschlüssel, mittel-lang Douilles, semi-profondes 6-pans

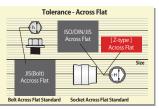


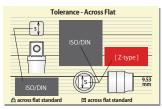
### RS3300XZ/8 RS3300XZ/12



Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant







Manufacturing tolerance is precisely controlled to achieve a secure fitting.

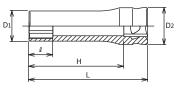
Series-Z

3300MZ (



6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans





### RS3300MZ/8 () ..... RS3300MZ/12

Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant



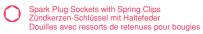




RS3X00MZ/12 Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant

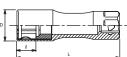


#### 3300CZ ()









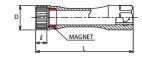
#### 3305PZ ()



Spark Plug Socket with Magnet, 12-pt. opening Zündkerzensteckschlüssel mit Magnet, 12-kant Douille pour bougies, avec aimant, 12-pans







3300MZ (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
7	10.3	17	8	41.5	55	29	10
8	11.5	17	9	41.5	55	34	10
10	14	17	11	41.5	55	43	10
11	15.3	17	12	41.5	55	45	10
12	16.5	17	13	41.5	55	49	10
13	17.8	17	14	41.5	55	52	10
14	19	17	16	41.5	55	55	10
15	20.2	18.2	16	40.5	55	65	10
16	21.3	19.3	17	40.5	55	74	10
17	22.5	20.5	18	40.5	55	83	10
18	23.6	21.6	19	39.5	55	90	10
19	24.8	22.8	20	39.5	55	95	10

RS3300MZ/8	8 Pieces Set/Rail 200mm	(g)
8, 10, 11,	12, 13, 14, 17, 19	600
RS3300MZ/12	12 Pieces Set/Rail 300mm	ДД (g)
7, 8, 10, 11, 12,	13, 14, 15, 16, 17, 18, 19	900

RS3X00M	Z/12 12 Pieces Set/Rail 300mm	(g)
3400MZ	8, 10, 11, 12, 13, 14, 17, 19	550
3300MZ	8, 10, 12, 14	330



#### BALL HOLDING GROOVE

Original Ball Holding system is applied on Z-series. This mechanism gives secure connection between Socket and Handle.

Die Werkzeuge der Z-Serie verfügen über spezielle Kugelfangrillen, die eine noch sicherere Verbindung zwischen Betätigungswerkzeug und Steckschlüssel gewährleisten.

#### La série Z dispose d'un système de billes de retenue.

Ce mécanisme permet une connection sécurisée entre la douille et le manche

3300CZ (mm)	D (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)
14	18.4	11	70	67	10
16	20.5	13	70	71	10
18	22.9	12	70	75	10
20.8	26.3	13.5	70	105	10

Slim & light weight body with smaller outside diameter for work in tight spaces.

	3305PZ (mm)	D (mm)	لا (mm)	L (mm)	₫₫ (g)	(pcs.)
New	14	17.9	8	70	56	10
New	16	20	8	70	55	10

Spark Plug Socket with Magnet, 12-pt. opening: size 14mm





3010MZ-50 (mm)	D (mm)	d (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
3	17	4	23.5	50	28	10
4	17	5	23.5	50	29	10
5	17	6	23.5	50	30	10
6	17	7	23.5	50	35	10
7	17	-	23.5	50	38	10
8	17	-	23.5	50	40	10
10	17	-	23.5	50	50	10
12	19	-	23.5	50	70	10

	3010MZ-75 (mm)	D (mm)	d (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
New	3	17	6	48.5	75	33	10
New	4	17	6	48.5	75	35	10
New	5	17	6	48.5	75	36	10
New	6	17	7	48.5	75	41	10
New	7	17	7.9	48.5	75	45	10
New	8	17	-	48.5	75	48	10
New	10	17	-	48.5	75	65	10
New	12	19	-	48.5	75	90	10

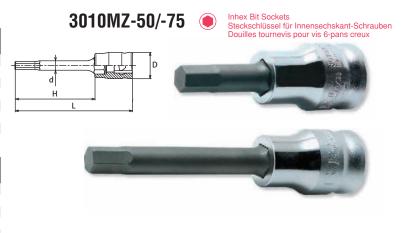
w 10	17	-	48.5	75	65	10	
w 12	19	-	48.5	75	90	10	
RS3010	)MZ/8-L50		8 Piec	es Set/Rai	l 200mm	ДД (g)	
3, 4, 5, 6, 7, 8, 10, 12							
D00046	M7/0   75		o D:	0 WD .		$\mathbb{Z}\mathbb{Z}$	

3, 4, 5, 6, 7, 8, 10, 12

3025Z-50 (T)	D (mm)	d (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
T10	17	3	23.5	50	27	10
T15	17	3.5	23.5	50	28	10
T20	17	3.9	23.5	50	28	10
T25	17	4.5	23.5	50	29	10
T27	17	5	23.5	50	30	10
T30	17	5.6	23.5	50	31	10
T40	17	6.7	23.5	50	35	10
T45	17	7.83	23.5	50	38	10
T50	17	8.90	23.5	50	48	10
T55	19	11.3	23.5	50	70	10

	3025Z-75 (T)	D (mm)	d (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
New	T20	17	4.5	48.5	75	32	10
New	T25	17	5	48.5	75	33	10
New	T27	17	5	48.5	75	33	10
New	T30	17	5.6	48.5	75	35	10
New	T40	17	6.7	48.5	75	41	10
New	T45	17	7.9	48.5	75	45	10
New	T50	17	8.9	48.5	75	55	10
New	T55	19	11.3	48.5	75	80	10

ı	RS3025Z/8-L50	8 Pieces Set/Rail 200mm	₫Д (g)			
	T20, T25 ,T27, T30, T40, T45, T50, T55					
	RS3025Z/8-L75	8 Pieces Set/Rail 200mm	Д¯Д (g)			
New	T20, T25, T27, T3	30, T40, T45, T50, T55	480			



## RS3010MZ/8-L50 • ..... RS3010MZ/8-L75

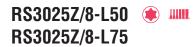








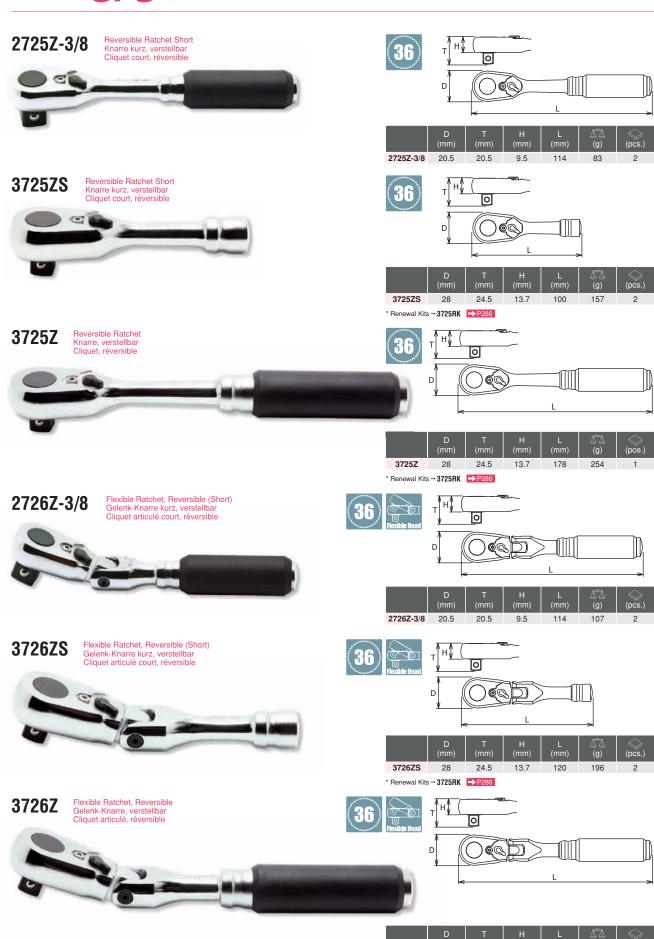






Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant





**3726Z** 28

\* Renewal Kits → 3725RK → P286

24.5

13.7

178 317 1







3768Z-250

Hinge Handle Gelenkgriff Poignée articulée



	D (mm)	L (mm)	Д <sup>™</sup> Д (g)	(pcs.)
3768Z-250	20.5	250	309	2

3760Z-75/-125/-250

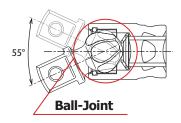
Extension Bars Verlängerungen Rallonges



\* Renewal Kits → 3768ZRK → P288

3760Z	D (mm)	L (mm)	ДĨД (g)	(pcs.)
75	17.5	75	66	10
125	17.5	125	103	10
250	17.5	250	195	5

	D (mm)	L (mm)	₫Д (g)	(pcs.)
3771Z	18	42.5	44	10



	D (mm)	L (mm)	₫Д (g)	⇒ (pcs.)
3756Z	28	25	40	10

Outside diameter is smaller compared to standard 3756. Ideal for working in combination with 3725Z



		()	(9)	(600.)	
3322AZ-75	17.5	75	42	10	
3300MZ-10	22	1/4" 6:35m	<b>O</b>	L	D 3/8"
JJZZA	-13				









3285Z Set in PE-foam tray Steckschlüsselsatz in Weichschaumeinlage Set disposé dans boîte de rangement en mousse souple



3285ZA

Set in PE-foam tray Steckschlüsselsatz in Weichschaumeinlage Set disposé dans boîte de rangement en mousse souple



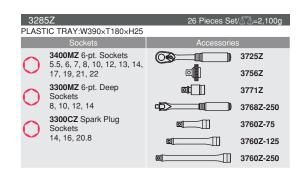


RSAL200-1/4×12/-3/8×8 RSAL300-3/8×12/-1/2×10 Magnetic Rail with retaining clips Magnetschiene mit Halteklammern Rail à aimant avec clips de maintien



RSAL-200/-300 CLIP.P/5-1/4/-3/8/-1/2 Magnetic Rails and retaining Clips, bulk Magnetschienen und Halteklammern, lose Rail à aimant avec clips de maintien, en vrac





3285ZA	15 Pieces Set/ὧ∄=750g
PLASTIC TRAY:W300×T90×H25	
Sockets	Accessories
3400MZ 6-pt. Sockets 5.5 6.7 8.10.12.13.14	3725Z
5.5, 6, 7, 8, 10, 12, 13, 14, 17, 19, 21, 22	<b>₫</b> 3756Z
	<b>፬</b> 1 3771Z

	9 Pieces Set/♨७=600g
Rail 200mm/PLASTIC BAG	
Sockets	Accessories
3400MZ 6-pt. Sockets 8, 10, 12, 13, 14, 17, 19	3725Z

RSAL200	Ø	RAIL (mm)	CLIP (pcs.)	Д <sup>™</sup> Д (g)	<u></u> (pce.)
1/4×12	1/4"	200	12	125	1
3/8×8	3/8"	200	8	130	1

RSAL300	Ø	RAIL (mm)	CLIP (pcs.)	₫∄ (g)	(pce.)
3/8×12	3/8"	300	12	180	1
1/2×10	1/2"	300	10	190	1

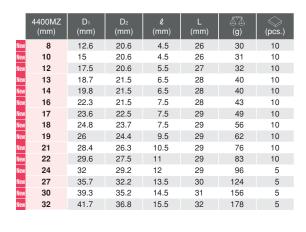


#### RAIL

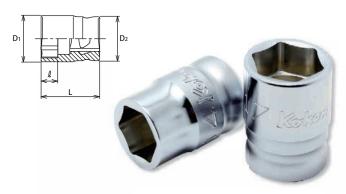
	RAIL (mm)	₫¼ (g)	(pce.)
RSAL200	200	110	1
RSAL300	300	145	1

#### CLIP

CLIP			
CLIP.P/5	Ø	Д`Д (g)	(pcs.)
1/4	1/4"	10	5
3/8	3/8"	13	5
1/2	1/2"	20	5













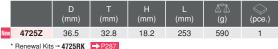
Socket Set on magnetic Rail Steckschlüsselsatz auf Magnetschiene Jeu de douilles sur rail à aimant















	D (mm)	L (mm)	₫∄ (g)	(pce.)	
New 4768Z-430	28	430	720	1	
* Renewal Kits → 4768ZRK → P288					



## 4760Z-125/-250

300-2035	 The second leading
	THE PERSON NAMED IN

Extension Bars Verlängerungen Rallonges

	4760Z	D (mm)	L (mm)	(g) (\alpha \sqrt{1}	(pcs.)
New	125	22.5	125	180	5
New	250	22.5	250	340	5

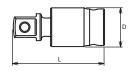
0		D
<	L	

1/2

4771Z

Universal Joint Gelenk-Einsatz Cardan universel





	D (mm)	L (mm)	₫¼ (g)	(pcs.)
New 4771Z	23.7	55.8	100	10

4756Z Quick Spinner Rändel-Drehscheibe Lanceur

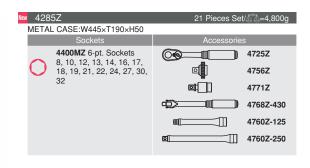




		D (mm)	L (mm)	Д¯Д (g)	(pcs.)
New	4756Z	36.3	33.5	84	10

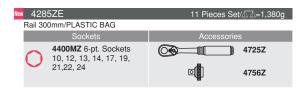
## 4285Z Set in Foam tray Steckschlüsselsatz in Weichschaumeinlage Set disposé dans boîte de rangement en mousse souple





**4285ZE** Socket Sets Steckschlüssel Sätze Jeu de clés à douilles



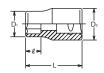




## 2400M / 2400A O 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans



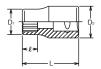






2405M / 2405A 12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





# RS2405M/11





RS2400M/11 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



### RS2400A/9 RS2405A/9





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail





2400W-BA 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans



1			1
D, -	uill.		- D <sub>2</sub>
	<ℓ>		
	<	I	



RS2400W/9-BA Socket Set on Rail Steckschlüsselsatz auf Schiene



	2400M 2405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
	3	5.5	11.2	2.6	22	7	10
New	3.5	6.1	11.2	3	22	7	10
	4	6.7	11.2	3.5	22	8	10
	4.5	7.3	11.2	4	22	8	10
	5	8	11.2	5	22	8	10
	5.5	8.5	11.2	5.5	22	9	10
	6	9.2	11.2	5.5	22	9	10
	7	10.3	11.2	6	22	9	10
	8	11.2	11.7	6.9	22	11	10
	9	13	12	7.3	22	12	10
	10	14.3	12.9	7.7	22	15	10
	11	15.5	14.3	9.3	22	18	10
	12	16.8	15.5	9.3	22	23	10
	13	18	16.4	9.8	22	23	10
	14	19.3	17.9	11	24	30	10

2400A 2405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
1/8	5.7	11.2	2.7	22	7	10
5/32	6.7	11.2	3.5	22	8	10
3/16	7.8	11.2	5	22	8	10
7/32	8.5	11.2	5.5	22	9	10
1/4	9.6	11.2	5.8	22	9	10
9/32	10.3	11.2	6	22	9	10
5/16	11.2	11.7	6.9	22	11	10
11/32	12.5	11.7	7.3	22	12	10
3/8	13.7	12.5	7.7	22	15	10
7/16	15.5	14.3	9.3	22	18	10
1/2	18	16.4	9.8	22	23	10
9/16	19.3	17.9	11	24	30	10

RS2400M/11	11 Pieces Set/Rail 200mm	Ø∑ (g)
4, 5, 6, 7, 8	3. 9. 10. 11. 12. 13. 14	222

RS2405M/11	11 Pieces Set/Rail 200mm	₫∄ (g)
4, 5, 6, 7, 8	3, 9, 10, 11, 12, 13, 14	222

RS2400A/9	9 Pieces Set/Rail 150mm	₫Д (g)
3/16 7/32 1/4 9/32 5	/16 11/32 3/8 7/16 1/2	162

RS2405A/9 9 Pieces Set/Rail 150mm	₫Z (g)
2/16 7/22 1/4 0/22 5/16 11/22 2/2 7/16 1/2	160

2400W (BA)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
8	6.1	11.2	3	22	7	10
7	7.3	11.2	4	22	8	10
6	8	11.2	5	22	8	10
5	8.5	11.2	5.5	22	9	10
4	9.6	11.2	5.8	22	9	10
3	10.3	11.2	6	22	9	10
2	11.2	11.7	6.9	22	11	10
1	13	12	7.3	22	12	10
0	14.9	13.6	8	22	16	10

RS2400W/9-BA	9 Pieces Set/Rail 150mm	Д́Д (g)
8, 7, 6, 5, 4, 3, 2, 1, 0		

### D<sub>2</sub> (mm) L (mm) ℓ (mm) (inch) (mm) 3/16 7.7 10.9 4.5 22 8 10 7/32 8.5 10.9 4.9 22 8 10 1/4 9.4 10.9 5.3 22 8 10 9/32 10.2 10.9 5.5 22 8 10 5/16 11.3 11.7 6.4 22 10 10 11/32 6.8 22 12.5 12 10 10 13.7 12.9 6.8 22 10 3/8 13 7/16 15.6 14.3 8.8 22 17 10 1/2 17.2 16.4 8.9 22 20 10

Aerospace Standard SAE AS954

17.9

18.8

9/16

RSAS2405A/10	10 Pieces Set/Rail 150mm	Д <sup>™</sup> Д (g)
3/16, 7/32, 1/4, 9/32, 5/16	5, 11/32, 3/8, 7/16, 1/2, 9/16	160

9.1

24

27

10

2410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)
4	6.7	11.2	3.5	22	8	10
4.5	7.3	11.2	4	22	8	10
5	8	11.2	5	22	8	10
5.5	8.5	11.2	5.5	22	9	10
6	9.2	11.2	5.5	22	9	10
7	10.3	11.2	6	22	9	10
8	11.2	11.7	6.9	22	11	10
9	13	12	7.3	22	12	10
10	14.3	12.9	7.7	22	15	10
11	15.5	14.3	9.3	22	18	10
12	16.8	15.5	9.3	22	23	10
13	18	16.4	9.8	22	23	10
14	19.3	17.9	11	24	30	10

RS2410M/11	11 Pieces Set/Rail 200mm	₫∄ (g)
4, 5, 6, 7,	8, 9, 10, 11, 12, 13, 14	222

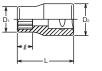
2415M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
6	11	11.7	5.4	22	13	10
8	14.3	12.9	6.8	22	17	10
10	17.4	16	8.2	22	27	10
2415A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
1/4	11	11.7	5.4	22	14	10
5/16	14.3	12.9	6.8	22	17	10
3/8	17.4	16	8.2	22	26	10

2425 (E)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫₫ (g)	(pcs.)
E 4	5.4	11.2	4.6	22	7	10
E 5	6.7	11.2	5.2	22	8	10
E 6	7.7	11.2	5.4	22	8	10
E 7	8.3	11.2	6.6	22	9	10
E 8	9.6	11.2	7	22	9	10
E10	11.3	12	8.2	22	10	10

### AS2405A









### RSAS2405A/10





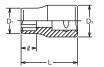




2410M



Surface Drive Sockets Surface Drive Steckschlüssel Douilles, Surface Drive





RS2410M/11



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



2415M / 2415A



Doppelvierkant Steckschlüssel Douilles mâles 4-pans doubles







TORX® Sockets TORX® Steckschlüssel Douilles TORX®





# **TORX®**



S <sub>1</sub> (ref. mm) 3.7 4.6 5.6 6.1 7.4 9.3 9.9 11.0 12.8 14.6 16.5 18.3 20.1 22.0					_10	LIU	L14	E12		E10	E8	E/	E6	E5	E4	E	
	23.7 25.5	22.0	20.1	18.3	16.5	14.6	12.8	11.0	9.9	9.3	7.4	6.1	5.6	4.6	3.7	(ref. mm)	S <sub>1</sub>
S <sub>2</sub> (ref. mm) 2.7 3.3 4.0 4.3 5.3 6.8 7.1 7.9 9.2 10.5 11.9 13.2 14.8 15.7	17.5 18.3	15.7	14.8	13.2	11.9	10.5	9.2	7.9	7.1	6.8	5.3	4.3	4.0	3.3	2.7	(ref. mm)	S <sub>2</sub>

RS2425/6	6 Pieces Set/Rail 150mm	Д̈́Д (g)
	E4, E5, E6, E7, E8, E10	90

RS2425/6



ШШ

Socket Set on Rail Steckschlüsselsatz auf Schiene



### 2450MS (



Nut Grip Sockets **Nut Grip®** Steckschlüssel mit 2-facher Kugelhalterung Douilles à billes de retenue





D <sub>1</sub>	1
	- D₂
<- l → L>	

### 2450MS 10 7 11.3 11.2 4 18 8 8 12.3 11.2 5 18 9 10 10 10 14.3 12.9 6 19 13 12 17.4 16 20 22 10 13 18 16.4 8 20 22 10 14 19.9 18 8.5 22 31 10





RS2450MS/6 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS2450MS/6 6 Pieces Set/Rail 150mm 7, 8, 10, 12, 13, 14 120



Douilles, semi-profondes 6-pans







RS2300X/11 Socket Set on Rail Steckschlüssselsatz auf Schiene Jeu de douilles sur rail



2300X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
4	6.7	11.2	4	22	32	10	10
5	8	11.2	5.5	22	32	11	10
6	9.2	11.2	7	22	32	12	10
7	10.5	11.2	8	22	32	13	10
8	11.8	11.2	9	22	32	16	10
9	13	12	10	22	32	18	10
10	14.3	12.9	11	21	32	23	10
11	15.5	14.3	12	21	32	27	10
12	16.8	15.5	13	21	32	29	10
13	18	16.4	14	21	32	32	10
14	19.3	17.9	16	20	32	37	10

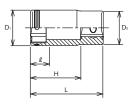
RS2300X/11	11 Pieces Set/Rail 200mm	ДД (g)
4, 5, 6, 7, 8	3, 9, 10, 11, 12, 13, 14	300

### 2350X 🔾



Nut Grip Socket, Semi-Deep **Nut Grip®**Steckschlüssel mit 2-facher Kugelhalterung, mittel-lang
Douilles à billes de retenue, semi-profondes





	2350X (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
New	8	12.3	11.2	5	22	32	17	10
New	10	14.2	12.9	6	22	32	22	10
New	12	17.3	16	7	22	32	34	10
New	14	20	18	8.5	22	32	43	10

### RS2350X/4 🔾 📖





	RS2350X/4	4 Pieces Set/Rail 150mm	Д¯Д (g)
New		8, 10, 12, 14	140



2300A 2305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
1/8	5.7	11.2	3.5	40	50	15	10
5/32	6.7	11.2	4	40	50	15	10
3/16	7.8	11.2	5.5	40	50	17	10
7/32	8.5	11.2	6	40	50	17	10
1/4	9.8	11.2	7	40	50	25	10
9/32	10.5	11.2	8	40	50	25	10
5/16	11.8	11.2	9	40	50	25	10
11/32	12.5	11.7	10	40	50	30	10
3/8	13.7	12.5	11	40	50	34	10
7/16	15.5	14.3	12	39	50	43	10
1/2	18	16.4	14	39	50	52	10
9/16	19.3	17.9	16	38	50	57	10

RS2300M/11	11 Pieces Set/Rail 200mm	₫Д (g)
4, 5, 6, 7, 8,	9, 10, 11, 12, 13, 14	437
BS2305M/11	11 Pieces Set/Bail 200mm	ΔĀ

4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

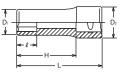
RS2300A/9	9 Pieces Set/Rail 150mm	₫∄ (g)
3/16, 7/32, 1/4, 9/32	2, 5/16, 11/32, 3/8, 7/16, 1/2	296
RS2305A/9	9 Pieces Set/Rail 150mm	Д̈́Д (g)
3/16, 7/32, 1/4, 9/32	2, 5/16, 11/32, 3/8, 7/16, 1/2	296

2300W (BA)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
4	9.8	11.2	7	40	50	22	10
3	10.5	11.2	8	40	50	25	10
2	11.8	11.2	9	40	50	25	10
1	13	12	10	40	50	30	10
0	14.9	13.6	12	39	50	38	10





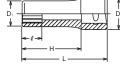




### 2305M / 2305A O







### RS2300M/11 RS2305M/11





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS2300A/9 RS2305A/9





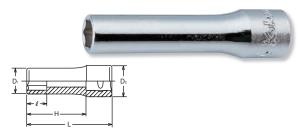
Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

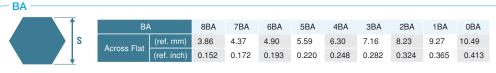


### 2300W-BA



6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans



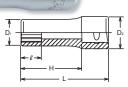


# AS2305A









### RSAS2305A/10







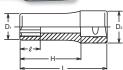


### 2310M



Surface Drive Deep Sockets Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive





# RS2310M/11

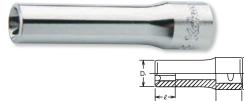


Socket Set on Rail Steckschlüsselsatz auf Schiene





TORX® Deep Sockets TORX® Steckschlüssel, lang Douilles longues TORX®

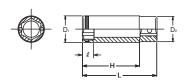


### 2350M



Nut Grip Deep Sockets **Nut Grip**® Steckschlüssel mit 2-facher Kugelhalterung, lang Douilles longues à billes de retenue





AS2305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
3/16	7.7	10.9	4.5	40	50	17	10
7/32	8.5	10.9	4.9	40	50	17	10
1/4	9.4	10.9	5.3	40	50	19	10
9/32	10.2	10.9	5.5	40	50	18	10
5/16	11.3	11.7	6.4	40	50	23	10
11/32	12.5	12	6.8	40	50	24	10
3/8	13.7	12.8	6.8	39	50	31	10
7/16	15.6	14.2	8.8	39	50	38	10
1/2	17.2	16.2	8.9	39	50	42	10
9/16	18.8	17.1	9.1	38	50	47	10

### Aerospace Standard SAE AS954

RSAS2305A/10	10 Pieces set/Rail 150mm	Д″Д (g)
3/16, 7/32, 1/4, 9/32, 5/16, 11	1/32, 3/8, 7/16, 1/2, 9/16	307

2310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3	5.5	11.2	3	40	50	15	10
4	6.7	11.2	4	40	50	15	10
4.5	7.3	11.2	4.5	40	50	15	10
5	8	11.2	5.5	40	50	17	10
5.5	8.5	11.2	6	40	50	17	10
6	9.2	11.2	7	40	50	20	10
7	10.5	11.2	8	40	50	25	10
8	11.8	11.2	9	40	50	25	10
9	13	12	10	40	50	30	10
10	14.3	12.9	11	39	50	34	10
11	15.5	14.3	12	39	50	43	10
12	16.8	15.5	13	39	50	50	10
13	18	16.4	14	39	50	52	10
14	19.3	17.9	16	38	50	57	10

RS2310M/11	11 Pieces set/Rail 200mm	₫Д (g)
4, 5, 6, 7, 8	3, 9, 10, 11, 12, 13, 14	437

2325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
E 4	5.4	12	4.6	40	50	17	10
E 5	6.8	12	5.2	40	50	20	10
E 6	8	12	5.4	40	50	20	10
E 7	8.3	12	6.6	40	50	22	10
E 8	9.8	12	7	40	50	25	10
E10	11.6	12	8.2	40	50	29	10

2350M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
8	12.3	11.2	5	40	50	30	10
10	14.2	12.9	6	39	50	35	10
12	17.3	16	7	39	50	55	10
14	19.9	18	8.5	38	50	70	10

# **NUT GRIP®**

Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.

Die zwei Kugeln in der 6-kant Öffnung unserer NUT GRIP Steckschlüssel halten die Schraube sicher im Steckschlüssel. Dies erlaubt ein Arbeiten auch an schwer zugänglichen Stellen.

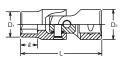
Les 2 billes dans l'ouverture du 6-pans de la douille retiennent l'écrou de manière sûre et efficace.

TORX\* is a registered trademark of Acument Intellectual Properties, LLC.
TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

## 2440M / 2440A



6-point Universal Sockets 6-kant Gelenk-Einsätze

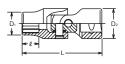




## 2445M / 2445A



12-point Universal Sockets 12-kant Gelenk-Einsätze Douilles universelles, 12-pans





### RS2445A/9



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

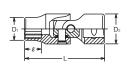


### **AS2445A**



12-point Universal Sockets, AS954 12-kant Gelenk-Einsätze, AS954 Douilles universelles, 12-pans, AS954







### Aerospace Standard SAE AS954

9.6

117

13.5

15.5

17.2

4

5

6

8

9

10

11

12

13

14

2440A

(inch)

5/16

3/8

7/16

1/2

9/16

3/16

1/4

9/32

5/16

11/32

3/8

7/16

1/2

9/16

AS2445A

1/4

5/16

3/8

7/16

1/2

RS2445A/9

6.7

92

10.5

11.7

14.2

15.5

16.7

18

19.2

(mm)

9.8

11.7

13.7

15.5

18

19.2

8 9.8

10.5

11.7

13

13.7

15.5

19.2

18

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13

13

13

D2

12.9

129

12.9

12.9

12.9

3/16, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16

4.8

5.3

6.1

6.5

8.3

9.5

10

10.5

10.5

6.5

8.3

9.5

10.5

10.5

5.3

6.5

6.5

8.3

9.5

10.5

10.5

5.7

8.3

9.5

10.5

31.5

32

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33

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36

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33

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36

37

37

(mm)

32

33

33

34

34

35

36

37

37

9 Pieces set/Rail 150mm

31.8

34 6

35.1

39.1

40.1

17

17

18

19

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26

28

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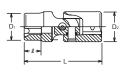
E 6         8         13         5.4         31.9         20         10           E 8         9.8         13         7         33.1         20         10	2440T (E)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
	E 6	8	13	5.4	31.9	20	10
	E 8	9.8	13	7	33.1	20	10
<b>E10</b> 11.7 13 8.2 33.6 21 10	E10	11.7	13	8.2	33.6	21	10
<b>E12</b> 14.2 13 9.3 35.1 24 10	E12	14.2	13	9.3	35.1	24	10

2441M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
7	11.3	13	4	33	19	10
8	12.3	13	5	32	19	10
10	14.5	13	6	32.5	21	10
12	16.8	13	7	34	21	10
13	18	13	8	35	21	10
14	20	13	8.5	37	28	10

### 2440T



TORX® Universal Sockets TORX® Gelenk-Einsätze Douilles universelles TORX®

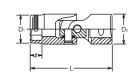




### 2441M



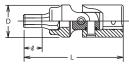
Nut Grip Universal Sockets Nut Grip® Gelenk-Einsätze mit zweifacher Kugelha Douilles universelles à billes de retenue







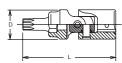




2430M (mm)	D (mm)	ℓ (mm)	L (mm)	₫₫ (g)	(pcs.)
3	13	5.5	40	18	10
4	13	5.5	40	18	10
5	13	6.5	40	20	10
6	13	7.5	40	21	10







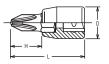
2430T (T)	D (mm)	L (mm)	₫Д (g)	(pcs.)
T 8	13	42	22	10
T 9	13	42	22	10
T10	13	42	22	10
T15	13	42	22	10
T20	13	42	22	10
T25	13	42	22	10
T27	13	42	22	10
T30	13	42	22	10



2000-28 (PH) 

Phillips Bit Sockets Steckschlüssel für Kreuzschlitzschrauben, Phillips Douilles tournevis pour vis à empreinte Phillips





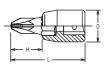
2000-28 (PH)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
1	11.9	12	28	10	10
2	11.9	12	28	11	10
3	11.9	12	28	12	10
4	13.1	11	28	14	10

### 2000-28 (PZ)



PZ Bit Sockets Stecksohler Steckschlüssel für Kreuzschlitzschrauben,PZ Douilles tournevis pour vis à empreinte PZ





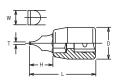
2000-28 (PZ)	D (mm)	H (mm)	L (mm)	Ø∄ (g)	(pcs.)
PZ1	11.9	12	28	10	10
PZ2	11.9	12	28	11	10
PZ3	11.9	12	28	12	10

### 2005-25



Bit Sockets for Slotted Head Steckschlüssel für Schlitzschrauben Douilles tournevis pour vis à fente



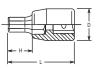


2005-25	T×W (mm)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
3	0.5× 3	11.9	9	25	9	10
4	0.8× 4	11.9	9	25	10	10
5	1.0× 5.5	11.9	9	25	10	10
6	1.2× 6.5	13.1	9	25	11	10
8	1.2× 8	13.1	9	25	12	10
9	1.6× 8	13.1	9	25	12	10
10	1.6×10	14.3	9	25	13	10

# Hand Steckschlüssel

### 2010M-25/-100 2010A-25









### 2010M-25 11.9 1.5 11.9 2.5 11.9 11.9 11.9 11.9 11.9 13.1 13.1 14.3

2010M-100 (mm)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
2	11.9	84	100	30	10
2.5	11.9	84	100	30	10
3	11.9	84	100	30	10
4	11.9	84	100	30	10
5	13.1	83	100	30	10
6	13.1	83	100	35	10
7	13.1	83	100	35	10
8	13.1	83	100	38	10
10	14.3	83	100	45	10

2010A-25 (inch)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
1/8	11.9	9	25	9	10
5/32	11.9	9	25	9	10
3/16	11.9	9	25	10	10
7/32	11.9	9	25	11	10
1/4	11.9	9	25	12	10
9/32	13.1	8	25	12	10
5/16	13.1	8	25	14	10
3/8	14.3	8	25	17	10

RS2010M/7-L25	7 Pieces set/Rail 150mm	₫Д (g)	
3, 4, 5, 6, 7, 8, 10			

RS2010A/8-L25	8 Pieces set/Rail 150mm	Д¯Д (g)
1/8, 5/32, 3/16, 7/32, 1/4	, 9/32, 5/16, 3/8	130

2011M-50 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3	11.9	34	50	16	10
4	11.9	34	50	17	10
5	11.9	34	50	18	10
6	11.9	34	50	18	10

Ball point bit sockets have less strength due to the special design. Make sure to use them correctly.



2020-28 (XZN)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
M4	11.9	12	28	12	10
M5	11.9	12	28	12	10
М6	11.9	12	28	13	10
M8	13.1	11	28	14	10

2020-50 (XZN)	D (mm)	H (mm)	L (mm)	Д°Д (g)	(pcs.)
M4	11.9	34	50	20	10
M5	11.9	34	50	20	10
M6	11.9	34	50	22	10
M8	13.1	33	50	24	10

RS2010M/7-L25 RS2010A /8-L25





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

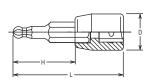


### 2011M-50



Ballpoint Inhex Sockets Steckschlüssel mit Kugelkopf, für Innensechskant-Schrauben Douilles tournevis avec tête sphérique pour vis 6-pans creux

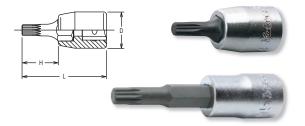




2020-28/-50

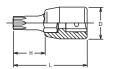


XZN Bit Sockets Steckschlüssel für XZN Schrauben Douilles tournevis pour empreinte XZN











2025-28 (T)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
T 8	11.9	12	28	10	10
T 9	11.9	12	28	10	10
T10	11.9	12	28	10	10
T15	11.9	12	28	10	10
T20	11.9	12	28	11	10
T25	11.9	12	28	11	10
T27	11.9	12	28	12	10
T30	11.9	12	28	12	10
T40	11.9	12	28	13	10

2025-80 (T)	D (mm)	H (mm)	L (mm)	ДД (g)	(pcs.)
T10	11.9	64	80	40	10
T15	11.9	64	80	40	10
T20	11.9	64	80	42	10
T25	11.9	64	80	42	10
T27	11.9	64	80	45	10
T30	11.9	64	80	45	10
T40	11.9	64	80	50	10



	Т	T8	T9	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	T60	T70	T80	T90	T100
S <sub>1</sub>	(ref. mm)	2.3	2.5	2.7	3.3	3.9	4.5	5.0	5.6	6.7	7.9	8.9	11.3	13.3	15.6	17.6	20.0	22.2
S <sub>2</sub>	(ref. mm)	1.7	1.8	2.0	2.3	2.8	3.2	3.6	4.0	4.8	5.6	6.2	8.0	9.5	11.1	12.7	14.2	15.8





Jeu de douilles sur rail



RS2025/7-L28	7 Pieces set/Rail 150mm	₫Д (g)
T10, T15, T20, T25	5, T27, T30, T40	119

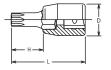
2025-28 (TH)



Tamper-Resistant TORX® Bit Sockets
Tamper-Resistant TORX® Bit-Steckschlüssel
Douilles tournevis, Tamper-Resistant TORX®







2025-28 (TH)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
T10H	11.9	12	28	10	10
T15H	11.9	12	28	10	10
T20H	11.9	12	28	11	10
T25H	11.9	12	28	11	10
T27H	11.9	12	28	12	10
T30H	11.9	12	28	12	10
T40H	11.9	12	28	13	10

Tamper Resistant TORX® Bit Sockets have less strength due to their special design. Make sure to use it correctly.

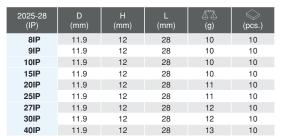
RS2025/7-L28 (TH) Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail





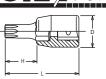
RS2025/7-HOLE	7 Pieces set/Rail 150mm	₫¼ (g)
T10H, T15H, T20H, T25	Н, Т27Н, Т30Н, Т40Н	119













### TORX Plus®

(IP)



IF		8IP	9IP	10IP	15IP	20IP	25IP	27IP	30IP	40IP	45IP	50IP	55IP	60IP	70IP
S <sub>1</sub>	(ref. mm)	2.3	2.5	2.7	3.3	3.9	4.5	5.0	5.6	6.7	7.9	8.9	11.3	13.3	15.6
S <sub>2</sub>	(ref. mm)	1.7	1.8	2.0	2.3	2.8	3.2	3.6	4.0	4.8	5.6	6.2	8.0	9.5	11.1

RS2025/7-L28 (IP)	7 Pieces set/Rail 150mm	₫₫ (g)
10IP, 15IP, 20IP, 25	IP, 27IP, 30IP, 40IP	120

## RS2025/7-L28 (IP)





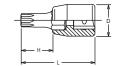
Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



2025-28 (PR)



Penta-Lobe Bit Sockets, with hole 5 Stern, mit Stirnbohrung Empreinte penta avec trou





### 2025-28 (PR) ∆`∆ (g) 8PR 11.9 12 28 10 10 9PR 11.9 12 28 10 10 10PR 11.9 28 12 10 10 15PR 11.9 12 28 10 10 20PR 11.9 12 28 11 10 25PR 11.9 12 28 11 10 27PR 11.9 12 28 12 10 30PR 11.9 12 28 12 10

28

13

10

12

### Penta-Lobe

40PR

(PR)

13.1



	PF	3	8PR	9PR	10PR	15PR	20PR	25PR	27PR	30PR	40PR	45PR	50PR	55PR
1	S <sub>1</sub>	(ref. mm)	2.2	2.4	2.6	3.1	3.6	4.1	4.7	5.2	6.3	7.4	8.4	10.6
	S <sub>2</sub>	(ref. mm)	2.0	2.2	2.4	2.8	3.3	3.8	4.3	4.8	5.7	6.7	7.6	9.7

RS2025/7-L28 (PR)	7 Pieces set/Rail 150mm	₫∄ (g)
10PR, 15PR, 20PR, 25	PR. 27PR. 30PR. 40PR	120

# RS2025/7-L28 (PR)

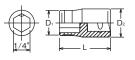
Socket Set on Rail Steckschlüsselsatz auf Schiene



2137



Klingenhalter Porte-embouts

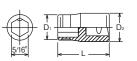




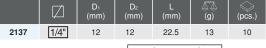
2138



Bit Holder Klingenhalter Porte-embouts







For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts





	$\square$	D₁ (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)
2138	1/4"	16	16	26	32	10

For DIN3126 C8 Bits Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts





Hand Sockets Hand Steckschlüssel Douilles à main











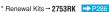




Renewal Kits → 2753RK

	D (mm)	T (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
2753PS	22	18.7	11.4	75	55	5











\* Renewal Kits → 2753RK ->P2







\* Renewal Kits → 2753RK → P

		D (mm)	T (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
	2753J	22	18.7	11.4	115	77	5
	2753P	22	18.7	11.4	115	87	10
New	2753N	22	18.7	11.4	115	90	10









11.4



160

107

5

\* Renewal Kits → 2753RK →

T			¬m	
D				2753P-160
o	8			
		and the second s	1	





Reversible Ratchet with quick release button Knarre, verstellbar mit Verriegelungsknopf Cliquet, réversible avec bouton de débrayage







18.7

\* Renewal Kits → 2753BRK → P286

22









\* Renewal Kits - 2753BRK



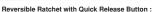




\* Renewal Kits → 2753BRK → P28

		D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
	2753JB	22	18.7	11.4	115	77	5
	2753PB	22	18.7	11.4	115	87	10
New	2753NB	22	18.7	11.4	115	90	10





Sockets and accessories are safely locked. By pushing the button the sockets or extension bars are released from the ratchet.

### Umstellbare Knarre mit Verriegelungsknopf :

bouton suffit pour les libérer.

Steckschlüssel und Zubehörteile werden sicher und fest gehalten. Bei Drücken des Knopfes lösen sich die Teile.

Les douilles et accessoires ne peuvent plus tomber. Une pression du pouce sur le





2753NB





\* Renewal Kits → 2753RK → P2

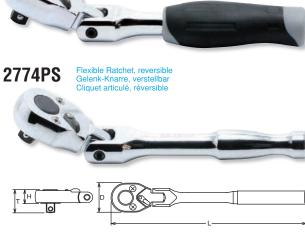




\* Rene

System	<b>(20)</b>	Plexible Head
newal k	(ite → 2753R	K → P286

	D (mm)	T (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
2774JS	22	18.7	11.4	116	113	5
2774PS	22	18.7	11.4	116	110	5







\* Renewal Kits → 2753RK → P28









\* Renewal Kits → 2753RK → P286









\* Renewal Kits → 2753RK

}	Plexible Head
-ani	/ Dooc

		D (mm)	T (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
	2774J	22	18.7	11.4	161	130	2
	2774P	22	18.7	11.4	161	126	2
New	2774N	22	18.7	11.4	161	130	2





\* Renewal Kits → 2755RK → P2

TT.	$\Diamond$
(a)	(nec )

(mm) (mm) (g)	(pcs.)
<b>2755</b> 26 40 80	10

	D (mm)	L (mm)	ДД (g)	(pcs.)
2756	22	20	19	10







2756

Quick Spinner Rändel-Drehscheibe Lanceur





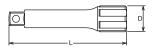




2760-28/-50/-75/-100/-150/-200/-250/ -300/-350/-400/-600

Extension Bars Verlängerungen Rallonges





PK2760/6

Extension Set in Plastic Box Verlängerungen in Kunststoffkassette Jeu de rallonges en boîte plastique



### 2763-28/-50/-75/-100/-150/-200/-250

Wobble-Fix Extension Bars Winkel-Verlängerungen Rallonges angulaires







PK2763/6

Wobble-Fix Extension Bars in Plastic Box Winkel-Verlängerungen in Kunststoffkassette Jeu de rallonges angulaires en boîte plastique



2760	D (mm)	L (mm)	₫∄ (g)	(pcs.)
28	12.3	28	14	10
50	12.3	50	23	10
75	12.3	75	35	10
100	12.3	100	44	10
150	12.3	150	63	10
200	12.3	200	83	10
250	12.3	250	103	10
300	12.3	300	122	2
350	12.3	350	145	2
400	12.3	400	160	2
600	12.3	600	240	2

PK2760/6 6 Pieces Set/\$\tilde{\bar{a}} = 430g PLASTIC TRAY **2760** Extension Bars 28, 50, 100, 150, 200, 250

Rotation and general handling of extensions with oily hands is greatly improved with the **Koken** developed 6 point knurling. Also the Kokon 6 point knurling stops the extensions from rolling around the work area







Durch die von Kokon entwickelte 6 fache Rändelung wird die Handhabung deutlich erleichtert. Außerdem wird das Herumrollen der Verlängerungen wirksam verhindert.

La manipulation des rallonges est grandement facilitée par le profil moleté développé par Kokon. Ce même profile empêche le roulement intempestif des rallonges sur le plan de travail.

2763	D (mm)	L (mm)	₫∄ (g)	(pcs.)
28	12.3	28	14	10
50	12.3	50	23	10
75	12.3	75	33	10
100	12.3	100	43	10
150	12.3	150	62	10
200	12.3	200	80	10
250	12.3	250	100	10



### Wobble-Fix Extension Bar

Two way usage

a) In a fixed position, as a normal extension bar

b) In a half-fixed position, as a flexible extension bar providing a 15° angle operation

### Winkel-Verlängerungen

Winkelverlängerungen lassen sich in zwel Einstellungen verwenden

a) voll eingesteckt und starr

b) halb eingesteckt, mit elnem Arbeitswinkel von 15°.

# 

### Rallonges angulaires

Deux utilisations possibles

a) comme rallonge normale, dans une position fixe

b) comme une rallonge angulaire avec une possibilité d'inclinaison jusqu'à 15°

The Wobble-Fix Extension Bar has less strength than normal extension bar due to it's

The Wobble-Fix Extension Bar has less sureingin than 1951 as specific design with a reduced square drive. Make sure to use it correctly.





	D (mm)	L (mm)	₫ <u>⊅</u> (g)	(pcs.)
2762	13	300	90	2

2120 Magnetkopf Tête aimantée

2762



Flexible Extension Bar Biegsame Verlängerung



	L (mm)	(g)	(pcs.)
2120	17.5	21	10

Distribution

Hinge Handle Gelenkgriff Poignée articulée

2768J

2768P

\* Renewal Kits → 2768RK → P288



\* Renewal Kits - 2768RK P28

	D (mm)	L (mm)	₫Д (g)	(pcs.)
2768J	14	130	73	5
2768P	14	130	70	10

2769N	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
150	50	150	68	2
220	120	220	100	2

2769NWF 150

220

50

120

Plastic or rubber handles are not intended to act as insulation.

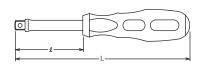
Plastik-oder Gummigriffe stellen keinen Isolierschutz dar.

Les poignées en plastique ou en caoutchouc ne garantissent aucune isolation électrique.



2769N-150/-220

Spin Type Handle Drehgriff Poignée emmanchée

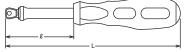


### 2769NWF-150/-220

Spin Type Handle(Wobble-Fix) Drehgriff, Wobble-Fix Poignée emmanchée, angulaire







2769H

Folding Socket Driver Klapp-Drehgriff Poignée tournevis articulée

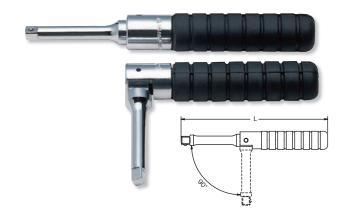
	L (mm)	ДД (g)	(pcs.)
2769H	160	180	10

150

220

68

100



Universal Joint Gelenk-Einsatz Cardan universel 2770



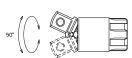


	L (mm)	Д <sup>™</sup> Д (g)	(pcs.)
2770	33	20	10
2771	31	20	10

Universal Joint Gelenk-Einsatz Cardan universel 2771









回

		<u>E</u> A	. <b>.</b>
	(mm)	(g)	(pce.)
2780	350	250	1

T-Handle T-Griff Poignée coulissante 2785



	L (mm)	₫ <u>¯</u> (g)	(pcs.)
2785	115	36	10

Adaptor Verbindungsstück Augmentateur 2233A





	凹 (sq.)	凸 (sq.)	L (mm)	₫∄ (g)	(pcs.)
2233A	1/4"	3/8"	22	16	10



# ESH2001 METAL CASE:W160×H100×T28mm Sockets 2410M Surface Drive Sockets 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13 2763-50 2760-150 2770 2785

### ESH2001

Steckschlüssel Satz Jeu de clés à douille



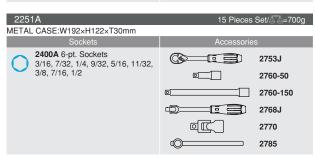
### ENH2003 26 Pieces Set/\$\tilde{\Bar}\$=980g METAL CASE:W310×H86×T40mm 2400M 6-pt. Sockets (S) 2753J 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 2760-50 108P Phillips Bits 2760-150 108S Slotted Bits 4, 6, 8 **\_\_\_\_\_\_** 2769N-150 108H Hex Bits or or 2770 3, 4, 5, 6 2785 2137

### ENH2003

Socket Set Steckschlüssel Satz Jeu de clés à douille



# 2251M 17 Pieces Set/\$\tilde{\t



# 2251M / 2251A

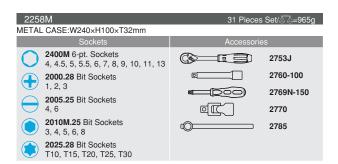
Socket Set Steckschlüssel Satz Jeu de clés à douille



# 2258M

Socket Set Steckschlüssel Satz Jeu de clés à douille





2259M

Socket Set Steckschlüssel Satz Jeu de clés à douille



2263A

Socket Set Steckschlüssel Satz Jeu de clés à douille



2275

Socket Set Steckschlüssel Satz Jeu de clés à douille



2276

Socket Set with Bits and Accessories Bit Satz mit Zubehör Jeu d'embouts et avec accessoires



2277

Socket Set Steckschlüssel Satz Jeu de clés à douille



2259M	31 Pieces	s Set/ὧື=991g
METAL CASE:W240×H100×T32mm		
Sockets	Accessorie	es
<b>2400M</b> 6-pt. Sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13		2774JS
2000.28 Bit Sockets 1, 2, 3		2760-100
2005.25 Bit Sockets 4, 6		2769N-150 2770
<b>2010M.25</b> Bit Sockets 3, 4, 5, 6, 8		2785
2025.28 Bit Sockets T10, T15, T20, T25, T30		

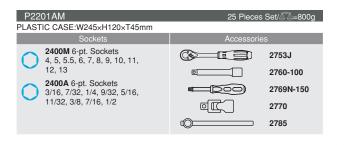
New 2263A METAL CASE:W240×H100×T32mm	29 Pieces	; Set/ὧື=940g
Sockets	Accessorie	es
2400A 6-pt. Sockets 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2		2753N 2760-100
2000.28 Bit Sockets 1, 2, 3		2769N-150
2010A.25 Bit Sockets 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16		2770 2785
<b>2025.28</b> Bit Sockets T10, T15, T20, T25, T30		

2275 METAL CASE:W192×H122×T30mm	19 Pieces	s Set/₫ <sup>™</sup> ⊒=880g
Sockets	Accessorie	es
<b>2400M</b> 6-pt. Sockets 5.5, 6, 7, 8, 10, 12, 13		2753J
2000.28 Bit Sockets 1, 2, 3		2763-50 2769N-150
<b>2005.25</b> Bit Sockets 6, 8		270914-130
<b>2010M.25</b> Bit Sockets 3, 4, 5, 6		

2276 METAL CASE:W192×H122×T30mm	19 Piece	es Set/ὧື∆=640g
Bits	Accessor	ries
108P Phillips Bits 1, 2, 3		2753PS
108S Slotted Bits 4, 5, 6		2769N-150
108H Hex Bits 3, 4, 5, 6	Щ	2137
108T TORX® Bits T10, T15, T20, T25, T27, T30		

2277	21 Pieces Set/ὧ 1,240g
METAL CASE:W310×H86×T50mm	
Sockets	Accessories
<b>2400M</b> 6-pt. Sockets 5.5, 6, 7, 8, 9, 10, 11, 12, 13	2753J
2300M 6-pt. Deep Sockets 5.5, 6, 7, 8, 9, 10, 11, 12, 13	2763-75 2769N-150





### P2201AM

Socket Set Steckschlüssel Satz Jeu de clés à douille

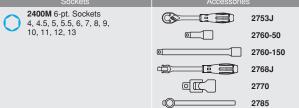


# P2251M

Socket Set Steckschlüssel Satz Jeu de clés à douille

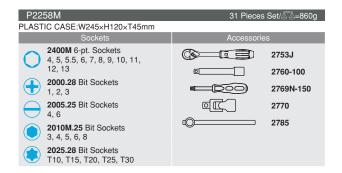


# P2251M PLASTIC CASE:W245×H120×T45mm



### P2258M

Socket Set Steckschlüssel Satz Jeu de clés à douille





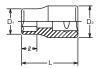


### 3400M / 3400A



Douilles 6-pans





### 3405M / 3405A 🔘



12-point Sockets 12-kant Steckschlüssel





# **FLAT DRIVE®**

Flat drive is designed to guarantee a flat surface contact between the socket and the bolt/nut. The Flat contact reduces wear and allows to transmit a higher torque value. The Flat Drive System is also used for the square drive end as well as the hexagonal or bi-hexagonal openings of the socket

Das Flat Drive Design sorgt für die optimale Kraftübertragung zwischen den Flächen des Steckschlüssels und der Schraube. Dies erlaubt eine Übertragung von höheren Drehmomenten. Das Flat Drive System findet ebenfalls bei allen Antriebsvierkanten sowie bei 6-kant und 12-kant Profilen Verwendung.

Le profil Flat Drive garantit un contact optimal entre la douille et l'écrou. Ce contact «à plat» réduit l'usure et permet la transmission d'un couple plus élevé. Ce système Flat Drive est utilisé pour tous les carrés conducteurs ainsi que pour toutes nos douilles

3400M 3405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
5	8.3	17.3	5	26	20	10
5.5	8.9	17.3	5.5	26	20	10
6	9.9	17.3	6	26	20	10
7	10.8	17.3	6.5	26	20	10
8	12	17.3	7	26	22	10
9	13.3	17.3	7.5	26	23	10
10	14.5	17.3	8	26	24	10
11	15.8	17.3	8.5	26	25	10
12	16.8	17.3	9	26	25	10
13	18	17	9.5	26	24	10
14	19.5	18.5	11	27	31	10
15	20.8	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.3	21.5	12.5	29	51	10
18	24.5	22.5	13	30	51	10
19	25.8	23.5	13.5	30	63	10
20	27	24.5	14	31	75	10
21	28	26	14.5	32	77	10
22	29.5	26.5	15	32	82	10
23	30.8	27.5	15.5	33	95	10
24	32	28.5	16	34	102	10

	3400A 3405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫'∆ (g)	(pcs.)
	3/16	8.3	17.3	5	26	20	10
	1/4	10.3	17.3	6	26	20	10
	9/32	10.8	17.3	6.5	26	20	10
	5/16	12	17.3	7	26	22	10
	11/32	13.3	17.3	7.5	26	23	10
	3/8	13.9	17.3	8	26	23	10
lew	13/32	13.3	17.3	7.5	26	23	10
	7/16	15.8	17.3	8.5	26	25	10
	1/2	18	17	9.5	26	24	10
	9/16	19.5	18.5	11	27	31	10
	19/32	20.8	19.5	11.5	28	39	10
	5/8	22	20	12	28	42	10
	11/16	24.5	22.5	13	30	51	10
	3/4	25.8	23.5	13.5	30	63	10
	25/32	27	24.5	14	31	75	10
	13/16	28	26	14.5	32	77	10
	7/8	29.5	26.5	15	32	82	10
	15/16	32	28.5	16	34	102	10

### RS3405M/12





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS3400M/12	12 Pieces Set/Rail 300mm	₫Д (g)
8, 9, 10, 11, 12, 13	3, 14, 15, 16, 17, 18, 19	465
RS3405M/12	12 Pieces Set/Rail 300mm	₫Д (g)
8, 9, 10, 11, 12, 13	3, 14, 15, 16, 17, 18, 19	465

RS3400A/9 RS3405A/9



ШШ Ш

Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



		(g)
1/4, 5/16, 3/8	3, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4	333
RS3405A/9	9 Pieces Set/Rail 200mm	₫∄ (g)
1/4, 5/16, 3/8	3, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4	333

BS3400A/9

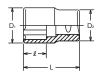
3410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫₫ (g)	(pcs.)
5.5	8.9	17.3	5.5	26	20	10
6	9.9	17.3	6	26	20	10
7	10.8	17.3	6.5	26	20	10
8	12	17.3	7	26	22	10
9	13.3	17.3	7.5	26	23	10
10	14.5	17.3	8	26	24	10
11	15.8	17.3	8.5	26	25	10
12	16.8	17.3	9	26	25	10
13	18	17	9.5	26	24	10
14	19.5	18.5	11	27	31	10
15	20.8	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.3	21.5	12.5	29	51	10
18	24.5	22.5	13	30	51	10
19	25.8	23.5	13.5	30	63	10
20	27	24.5	14	31	75	10
21	28	26	14.5	32	77	10
22	29.5	26.5	15	32	82	10
23	30.8	27.5	15.5	33	95	10
24	32	28.5	16	34	102	10

RS3410M/12 12 Pieces Set/Rail 300mm	(g)
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	468

3400W 3405W (W)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
1/8	13.3	17.3	7.5	26	22	10
3/16	15.8	17.3	8.5	26	25	10
1/4	18	17	9.5	26	24	10
5/16	20.8	19.5	11.5	28	39	10
3/8	24.5	22.5	13	30	51	10
7/16	28	26	14.5	32	81	10
1/2	30.8	27.5	15.5	33	103	10
9/16	34.5	30.5	17	35	128	10

### 3410M







### **SURFACE DRIVE**

Surface drive sockets are designed to retain contact with the flat sides of the nut in order to transmit higher torque and reduce nut wear.

These sockets are ideal for using on polished nuts, aluminum nuts and nuts with worn out points.

Das Profil unserer Surface-Drive Steckschlüssel greift die Schraube an deren Flächen. Dies sichert eine höhere Kraftübertragung und verhindert ein Durchrutschen des Steckschlüssels. Diese Steckschlüssel eignen sich besonders für polierte Schrauben, Aluminium Schrauben und Schrauben bei denen die Ecker bereits abgerundet sind.

Notre profil Surface Drive assure le contact entre la douille et les plats de l'écrou. Ceci réduit l'usure et permet la transmission d'un couple plus élevé. C'est une solution idéale pour les écrous polies, celles en aluminium ou arrondies.

### RS3410M/12



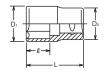
Socket Set on Rail Stacksoblines 1 Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



### 3400W



6-point Whitworth Sockets 6-kant Steckschlüssel, Whitworth Douilles à 6-pans Whitworth





### 3405W



12-point Whitworth Sockets 12-kant Steckschlüssel, Whitworth Douilles à 12-pans Whitworth







BS·W _	BS	3/16BS	1/4BS	5/16BS	3/8BS	7/16BS	1/2BS	9/16BS	5/8BS	11/16BS	3/4BS	7/8BS
B2.M	W	1/8W	3/16W	1/4W	5/16W	3/8W	7/16W	1/2W	9/16W	5/8W	11/16W	3/4W
Across Flat (I	(ref. mm)	8.64	11.30	13.34	15.24	18.03	20.83	23.37	25.65	27.94	30.48	33.02

RS3400W/7	7 Pieces Set/Rail 200mm	₫) (g)		
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2				
RS3405W/7	7 Pieces Set/Rail 200mm	Д¯Д (g)		







Hand Steckschlüssel Douilles à main



### 3415M / 3415A



Double 4-point Sockets Doppelvierkant Steckschlüssel Douilles 4-pans, doubles





3415M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
6	12	17.3	6	26	26	10
8	14.5	17.3	7	26	26	10
10	16.8	17.3	8	26	27	10
12	20.8	19.5	9	27	43	10

3415A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
1/4	12	17.3	6	26	24	10
5/16	14.5	17.3	7	26	26	10
11/32	15.8	17.3	7.5	26	27	10
3/8	16.8	17.3	8	26	27	10
7/16	19.5	18.5	8.5	27	37	10
1/2	22	20	9.5	27	46	10

### 3425



TORX® Sockets TORX® Steckschlüssel Douilles TORX®





3425 (E)	D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	Ø∄ (g)	(pcs.)
E 4	5.6	17.3	4.6	26	18	10
E 5	7	17.3	5.2	26	20	10
E 6	8.3	17.3	5.4	26	21	10
E 7	8.9	17.3	6.6	26	22	10
E 8	9.9	17.3	7	26	23	10
E10	12	17.3	8.2	26	24	10
E11	13.3	17.3	8.7	26	25	10
E12	14.5	17.3	9.3	26	26	10
E14	15.8	17.3	10.6	26	27	10
E16	18	17	11.8	26	27	10

# **TORX**® (E)

E E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24	E26	E28
S <sub>1</sub> (ref. mm) 3.7	4.6	5.6	6.1	7.4	9.3	9.9	11.0	12.8	14.6	16.5	18.3	20.1	22.0	23.7	25.5
S <sub>2</sub> (ref. mm) 2.7	3.3	4.0	4.3	5.3	6.8	7.1	7.9	9.2	10.5	11.9	13.2	14.8	15.7	17.5	18.3





RS3425/9 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS3425/9	9 Pieces Set/Rail 200mm	₫¼ (g)
E4, E5, E6, E7, E8, E1	0, E12, E14, E16	239



RSX425/14 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



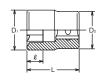
RSX425/14	1	14 Pieces Set/Rail 300mm	(g) (\alpha\alpha\
2425	1/4"	E4, E5, E6, E7, E8	
3425	3/8"	E10, E11, E12, E14	550
4425	1/2"	E16, E18, E20, E22, E24	

### 3400LH ()



LHSTIX® Sockets Steckschlüssel mit LHSTIX® Profil Douilles au profil LHSTIX®





3400LH (LH-S)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
5S	10.8	17.3	5	26	20	10
6S	12	17.3	5.6	26	22	10
88	15.8	17.3	6.8	26	25	10
10S	18	17	8	26	25	10
12S	22	20	9.2	28	42	10
148	24.5	22.5	10.4	30	51	10
16S	28	26	11.6	32	77	10

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TORX° ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX° est une marque déposée de Acument Intellectual Properties, LLC.





Jeu de douilles sur rail



### **LHSTIX**®

RS3400LH/7



LH-	S	LH-5S	LH-6S	LH-8S	LH-10S	LH-12S	LH-14S	LH-16S
S <sub>1</sub>	(ref. mm)	5.6	6.8	9.0	11.3	13.6	15.8	18.1
S <sub>2</sub>	(ref. mm)	7.5	9.0	12.0	15.0	18.0	21.0	24.0

315

3450M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)
8	12	17.3	5	26	21	10
10	14.5	17.3	6	26	24	10
11	15.8	17.3	6.5	26	26	10
12	16.8	17.3	7	26	26	10
13	18	17	8	26	28	10
14	19.5	18.5	8.5	27	34	10
15	20.8	19.5	9	27	42	10
16	22	20	9	27	50	10
17	23.3	21.5	9.5	28	62	10
18	24.5	22.5	10.5	29	64	10
19	25.8	23.3	11.5	29	66	10
21	28	26	12	29	85	10
22	29.5	27	12.5	29	90	10
24	32	30	14.5	31	102	10

7 Pieces Set/Rail 150mm

5S, 6S, 8S, 10S, 12S, 14S, 16S

RS3450M/8	8 Pieces Set/Rail 200mm	₫Д (g)
	8, 10, 11, 12, 13, 14, 17, 19	310



3425 (2B)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
E10	12	17.3	8.2	26	23	10
E12	14.5	17.3	9.3	26	25	10
E14	15.8	17.3	10.6	26	26	10
E16	18.1	17	11.8	26	27	10
E18	19.5	18.5	12	32	41	10
E20	21.9	20	14.4	32	52	10

RS3425/4(2B)	4 Pieces Set/Rail 150mm	₫∄ (g)				
	E10, E12, E14, E20					

### 3450M



Nut Grip Sockets **Nut Grip®** Steckschlüssel mit 2-facher Kugelhalterung Douilles à billes de retenue







# **NUT GRIP®**

Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.

Die zwei Kugeln in der 6-kant Öffnung unserer NUT GRIP Steckschlüssel halten die Schraube sicher im Steckschlüssel. Dies erlaubt ein Arbeiten auch an schwer zugänglichen Stellen.

Les 2 billes dans l'ouverture du 6-pans de la douille retiennent l'écrou de manière sûre et efficace.

### RS3450M/8



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Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



### 3425 (2B)



TORX® Sockets **Nut Grip**® TORX Steckschlüssel mit 2-facher Kugelhalterung Douilles Torx à deux billes de retenue









RS3425/4 (2B) Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



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Hand Steckschlüssel

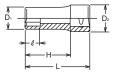
Douilles à main Douilles à main





3300X / 3300XA 6-point Sockets, Semi-Deep 6-kant Steckschlüssel, mittel-lang Douilles, semi-profondes 6-pans



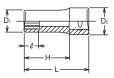


### 3305X / 3305XA 🔘



12-point Sockets, Semi-Deep 12-kant Steckschlüssel, mittel-lang Douilles, semi-profondes 12-pans





# RS3300X/8 RS3305X/8





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



## RS3300XA/9 RS3305XA/9





Socket Set on Rail
Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

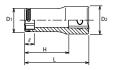


# 3350X



Nut Grip Socket, Semi-Deep **Nut Grip®** Steckschlüssel mit 2-facher Kugelhalterung, mittel-lang Douilles à billes de retenue, semi-profondes





### RS3350X/4





3300X 3305X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
8	12	17.3	9	26.5	40	34	10
9	13	17.3	10	26.5	40	36	10
10	14.5	17.3	11	26.5	40	36	10
11	16	17.2	12	26.5	40	36	10
12	16.8	17.2	13	26.5	40	36	10
13	18	17	14	26.5	40	37	10
14	20	18	16	26.5	40	46	10
15	21	20	16	25.5	40	49	10
16	22	20	17	25.5	40	51	10
17	23.5	22	18	25.5	40	61	10
18	24.5	23	19	24.5	40	68	10
19	25	24	20	24.5	40	75	10

3300XA 3305XA (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
1/4	10.3	17.3	7	26.5	40	32	10
5/16	12	17.3	9	26.5	40	34	10
3/8	13.9	17.3	11	26.5	40	36	10
7/16	16	17.2	12	26.5	40	36	10
1/2	18	17	14	26.5	40	37	10
9/16	20	18.5	16	26.5	40	46	10
5/8	22	20	17	25.5	40	51	10
11/16	24.5	22.5	19	24.5	40	68	10
3/4	25	23.5	20	24.5	40	75	10

RS3300X/8	8 Pieces Set/Rail 200mm	Д¯Д (g)
	8, 10, 11, 12, 13, 14, 17, 19	405
RS3305X/8	8 Pieces Set/Rail 200mm	₫₫ (g)
	8 10 11 12 13 14 17 19	405

RS3300XA/9	9 Pieces Set/Rail 200mm	Ø∄ (g)			
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4					
RS3305XA/9	9 Pieces Set/Rail 200mm	₫Д (g)			
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4					

	3350X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	(g)	(pcs.)
New	8	12	17.4	5	26.5	40	33	10
New	10	14.5	17.4	6	26.5	40	35	10
New	12	16.8	17.2	7	26.5	40	40	10
New	14	19.5	18.5	8.5	26.5	40	48	10

	RS3350X/4	4 Pieces Set/Rail 150mm	(a) T_T
New		8, 10, 12, 14	165

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# 3300M / 3300A



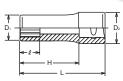


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<u>√</u>	) /////			D <sub>2</sub>
	<	_H—→ —— L—	ļ >	

# 3305M / 3305A







3300M 3305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫ <u>¯</u> (g)	(pcs.)
5.5	8.9	17.3	6.5	41.5	55	37	10
6	9.9	17.3	7	41.5	55	37	10
7	10.6	17.3	8	41.5	55	37	10
8	12	17.3	9	41.5	55	40	10
9	13	17.3	10	41.5	55	42	10
10	14.5	17.3	11	41.5	55	46	10
11	16	17.2	12	41.5	55	51	10
12	16.8	17.2	13	41.5	55	52	10
13	18	17	14	41.5	55	53	10
14	20	18	16	41.5	55	60	10
15	21	20	16	40.5	55	74	10
16	22	20	17	40.5	55	76	10
17	23.5	22	18	40.5	55	93	10
18	24.5	23	19	39.5	55	98	10
19	25	24	20	39.5	55	98	10
20	26	25	21	49.5	65	126	10
21	27	26	22	49.5	65	126	10
22	29	28	23	48.5	65	163	10
23	30	29	24	48.5	65	168	10
24	31	30	25	47.5	65	191	10
25	33	30	26	47.5	65	199	10
26	34	31	27	47.5	65	209	10
27	35	32.5	28	47.5	65	218	10

	3300A 3305A (inch)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	ДД (g)	(pcs.)
New	7/32	8.9	17.3	6	41.5	55	35	10
	1/4	9.9	17.3	7	41.5	55	37	10
	5/16	12	17.3	9	41.5	55	40	10
	11/32	12.3	17.3	10	41.5	55	41	10
	3/8	14	17.3	11	41.5	55	46	10
	7/16	16	17.2	12	41.5	55	51	10
	1/2	18	17	14	41.5	55	53	10
	9/16	20	18	16	41.5	55	60	10
	19/32	21	20	16	40.5	55	74	10
	5/8	22	20	17	40.5	55	76	10
	11/16	23.5	22	18	40.5	55	93	10
	3/4	25	24	20	39.5	55	98	10
	13/16	27	26	22	49.5	65	126	10
	7/8	29	28	23	48.5	65	163	10
	15/16	31	30	25	47.5	65	191	10

RS3300M/12	12 Pieces Set/Rail 300mm	₫'∆ (g)			
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19					
RS3305M/12	12 Pieces Set/Rail 300mm	₫Д (g)			
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19					

RS3300A/9	9 Pieces Set/Rail 200mm	₫Д (g)			
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4					
		<b>₽</b> ₽			
RS3305A/9	9 Pieces Set/Rail 200mm	₫∄ (g)			
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4					





Hand Steckschlüssel Douilles à main

# 3300M (L120)

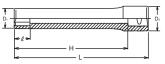




# 3305M (L120)







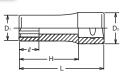
# 3300M/4-L120 3305M/4-L120





### Surface Drive Deep Sockets Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive 3310M





3300M(L120) 3305M(L120) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
8	12	17.3	9	106.5	120	85	10
10	14.5	17.3	11	106.5	120	110	10
12	16.8	17.2	13	106.5	120	116	10
13	18	17	14	106.5	120	155	5
14	20	18	16	106.5	120	166	5

### 3300M-Size DEEP SOCKET



### 3300M-Size (L120) EXTRA DEEP SOCKET

	O O
Bolt clearance 105mm	_

3300M/4-L120	4 Pieces Set/△∑=477g
PLASTIC BAG	
Sockets	
<b>3300M(L120)</b> 6-point Extra Deep Sockets 8, 10, 12, 14	
3305M/4-L120	4 Pieces Set/ĀĀ=477a
DI ACTIO DAC	11 10000 001

3305M/4-L120	4 Pieces Set/ὧ∄=477g
PLASTIC BAG	
Sockets	
<b>3305M(L120)</b> 12-point Extra Deep Sockets 8, 10, 12, 14	

3310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
6	9.9	17.3	7	41.5	55	37	10
7	10.6	17.3	8	41.5	55	37	10
8	12	17.3	9	41.5	55	40	10
9	13	17.3	10	41.5	55	42	10
10	14.5	17.3	11	41.5	55	46	10
11	16	17.2	12	41.5	55	51	10
12	16.8	17.2	13	41.5	55	52	10
13	18	17	14	41.5	55	53	10
14	20	18	16	41.5	55	60	10
15	21	20	16	40.5	55	74	10
16	22	20	17	40.5	55	76	10
17	23.5	22	18	40.5	55	93	10
18	24.5	23	19	39.5	55	98	10
19	25	24	20	39.5	55	98	10
20	26	25	21	49.5	65	126	10
21	27	26	22	49.5	65	126	10
22	29	28	23	48.5	65	163	10
23	30	29	24	48.5	65	168	10
24	31	30	25	47.5	65	161	10



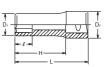


RS3310M/12	12 Pieces Set/Rail 300mm	₫∄ (g)
8, 9, 10, 11, 12, 1	3, 14, 15, 16, 17, 18, 19	881

3300W 3305W (W)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
1/8	12.3	17.3	10	41.5	55	46	10
3/16	16	17.3	12	41.5	55	55	10
1/4	18	17	14	41.5	55	57	10
5/16	21	20	16	40.5	55	79	10
3/8	24.5	23	19	39.5	55	96	10
7/16	27	26	22	49.5	65	140	10
1/2	30	29	24	48.5	65	193	10
9/16	34	31	27	47.5	65	250	10

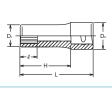






12-point Deep Whitworth Sockets 12-kant Steckschlüssel, Whitworth Douilles longues à 12-pans Whitworth 3305W





BS W	
	F
	S
	L
	_

DO W	BS	3/16BS	1/4BS	5/16BS	3/8BS	7/16BS	1/2BS	9/16BS	5/8BS	11/16BS	3/4BS	7/8BS
BS•W —	W	1/8W	3/16W	1/4W	5/16W	3/8W	7/16W	1/2W	9/16W	5/8W	11/16W	3/4W
Across Flat (ref	ef. mm)	8.64	11.30	13.34	15.24	18.03	20.83	23.37	25.65	27.94	30.48	33.02

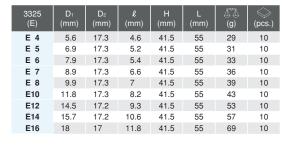
RS3300W/7	7 Pieces Set/Rail 200mm	₫∄ (g)
1/8, 3/16, 1/4,	5/16, 3/8, 7/16, 1/2	719
RS3305W/7	7 Pieces Set/Rail 200mm	₫Д (g)
1/8, 3/16, 1/4,	5/16, 3/8, 7/16, 1/2	719

RS3300W/7	
RS3305W/7	



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

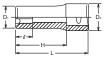




RS3325/9	9 Pieces Set/Rail 200mm	₫∄ (g)
E4, E5, E6, E7, E8, E10	), E12, E14, E16	420













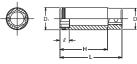
Hand Steckschlüssel Douilles à main

### 3350M



Nut Grip Deep Sockets **Nut Grip**® Steckschlüssel mit 2-facher Kugelhalterung, lang Douilles longues à billes de retenue





3350M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
8	12	17.4	5	41.5	55	50	10
10	14.5	17.4	6	41.5	55	54	10
12	16.8	17.2	7	41.5	55	58	10
13	18	17	8	41.5	55	59	10
14	19.5	18.5	8.5	41.5	55	71	10

### RS3350M/5



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail 



### RS3350M/5 8, 10, 12, 13, 14

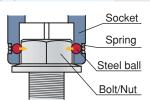


34.5

21.1

29.5

31.5



2 Pieces Set/🏂 =230g

# 3350M (L120)



Nut Grip Deep Sockets **Nut Grip®** Steckschlüssel mit 2-facher Kugelhalterung, lang Douilles à billes de retenue



3350M(L120) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
10	14.5	17.2	6	106.5	120	110	10
12	16.8	17.2	7	106.5	120	116	10

### 3350M/2-L120



Socket Set Steckschlüssel Satz Jeu de clés à douille

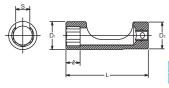


### 3300FN ()



Flare Nut Sockets Geschlitzte Steckschlüssel für Überwurfmuttern Douilles à tuyauter





2	↑   D <sub>2</sub>   ↓							
	3300FN (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	S (mm)	₫Д (g)	(pcs.)
	8	14.5	17.3	6	53	6.4	38	10
	9	16	17.3	7	53	6.8	41	10
	10	16.8	17.2	7.5	53	7.2	42	10
	11	18	17	8.5	53	8.3	42	10

9.5

10.5

11.5

12.5

8.8

9.4

10.5

11.5

13.5

14.5

3350M(L120) Nut Grip Extra Deep Sockets

# RS3300FN/8





RS3300FN/8	8 Pieces Set/Rail 200mm	₫ <u>¯</u> (g)
	9 10 11 13 14 16 17 19	600

3440M 3445M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)
8	12	19	7.3	47	50	10
9	13.3	19	7.8	47.5	50	10
10	14.5	19	8.8	48.5	64	10
11	15.8	19	9.8	49.5	66	10
12	17	19	10.3	50	67	10
13	18.3	19	11.3	51	68	10
14	19.5	19	11.3	51	69	10
15	20.8	19	12.8	53.5	70	10
16	22	19	12.8	53.5	77	10
17	23.3	19	13.8	54.5	80	10
18	24.5	19	13.8	54.5	80	10
19	25.8	19	15.8	56.5	84	10
21	28.3	19	16.8	56.5	96	10

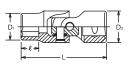
3440A 3445A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
5/16	12	19	7.3	47	50	10
3/8	14	19	8.3	48	64	10
7/16	15.8	19	9.8	49.5	66	10
1/2	18.3	19	11.3	51	68	10
9/16	19.5	19	11.3	51	69	10
5/8	22	19	12.8	53.5	77	10
11/16	24.5	19	13.8	54.5	80	10
3/4	25.8	19	15.8	56.5	84	10

RS3440M/8	8 Pieces Set/Rail 200mm	₫Д (g)		
8, 10, 11, 12, 13, 14, 17, 19				
RS3440A/8	8 Pieces Set/Rail 200mm	₫Д (g)		
5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4				

3445W (W)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	Д <sup>™</sup> Д (g)	(pcs.)
1/8	13.3	19	7.8	47.5	50	10
3/16	15.8	19	9.7	49.5	66	10
1/4	18.3	19	11.3	51	68	10
5/16	20.8	19	12.8	53.5	70	10
3/8	24.5	19	13.8	54.5	80	10
7/16	28.3	19	16.8	57.5	96	10
1/2	30.8	19	17.8	58.5	105	10

RS3445W/7	7 Pieces Set/Rail 200mm	₫¼ (g)
1/8, 3/16, 1/4, 5/16,	3/8, 7/16, 1/2	570



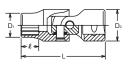




### 3445M / 3445A 🔘



12-point Universal Sockets 12-kant Gelenk-Einsätze Douilles articulées, 12-pans





## RS3440M/8 RS3440A/8



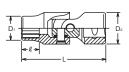
Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



### 3445W



12-Point Whitworth Universal Socket 12-kant Gelenk-Einsatz, Whitworth Douille articulées, 12-pans, Whitworth





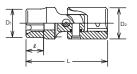


Hand Steckschlüssel Douilles à main



**3440T** O TORX® Universal Sockets TORX® Gelenk-Einsätze Douilles articulées TORX®









RS3440T/8 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

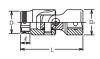


### 3441M



Nut Grip Universal Sockets **Nut Grip**® Gelenk-Einsätze mit zweifacher Kugelhalterung Douilles articulées, à billes de retenue







RS3441M/5 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

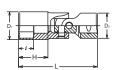


### 3340M-75 🔘



Universal Deep Sockets Gelenk-Steckschlüssel, lange Ausführung Douilles articulées longues





### RS3340M/8-L75





3440T (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
E 6	7.9	19	5.4	44.9	60	10
E 8	9.9	19	7	46.5	63	10
E10	11.8	19	8.2	47.7	63	10
E12	14.5	19	9.3	48.8	68	10
E14	15.7	19	10.6	50.1	68	10
E16	18	19	11.8	51.3	70	10
E18	19.5	19	13	53.5	78	10
E20	22	19	14.4	54.9	81	10

RS3440T/8	8 Pieces Set/Rail 200mm	₫Д (g)		
E6, E8, E10, E12, E14, E16, E18, E20				

3441M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
8	12	19	5	46	57	10
10	14.5	19	6	46	58	10
12	16.8	19	7	47	58	10
13	18	19	8	48	60	10
14	19.5	19	8.5	49.5	65	10



RS3441M/5	5 Pieces Set/Rail 150mm	(g)	
8, 10, 12, 13, 14			

3340M-75 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
8	12	19	9	39	75	82	10
10	14.5	19	11	39	75	87	10
11	15.8	19	12	39	75	87	10
12	17	19	13	39	75	92	10
13	18.3	19	14	36	75	93	10
14	19.5	19	15	35	75	103	10
15	20.8	19	16	35	75	104	10
16	22	19	17	34	75	110	10
17	23.3	19	18	34	75	115	10
18	24.5	19	19	34	75	119	10
19	25.8	19	20	33	75	123	10

RS3340M/8-L75	8 Pieces Set/Rail 200mm	₫∄ (g)				
8, 10, 11, 12,	8. 10. 11. 12. 13. 14. 17. 19					

3430M (mm)	D (mm)	<b>ℓ</b> (mm)	L (mm)	₫∄ (g)	(pcs.)
5	19	15.5	62	66	10
6	19	15.5	62	70	10
7	19	15.5	62	72	10
8	19	15.5	62	74	10
10	19	15.5	62	78	10
12	19	15.5	62	85	10



RS3430M/6	6 Pieces Set/Rail 150mm	(g) \[ \tilde{\Pi} \]				
	5, 6, 7, 8, 10, 12					





3117M-125 (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
10	14.5	18	10	44	125	121	1
11	16	18	11	44	125	133	1
12	17	18	12	44	125	133	1
13	18	18	13	44	125	134	1
14	19.5	18	14	44	125	145	1
17	23.5	18	17	44	125	178	1
19	25	18	19	44	125	187	1
21	27	18	21	44	125	195	1
22	29	18	22	44	125	214	1

3117M-250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pce.)
10	14.5	18	10	44	250	233	1
11	16	18	11	44	250	241	1
12	17	18	12	44	250	246	1
13	18	18	13	44	250	249	1
14	19.5	18	14	44	250	262	1
17	23.5	18	17	44	250	289	1
19	25	18	19	44	250	298	1
21	27	18	21	44	250	302	1
22	29	18	22	44	250	325	1

## 3000-60 (PH)





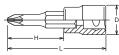
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# 3000-50 (PZ)



PZ Bit Sockets Steckschlüssel für Kreuzschlitzschrauben,PZ Douilles tournevis pour vis à empreinte PZ





3000 (PH)	(mm)	H (mm)	L (mm)	⊕ ⊕ (g)	(pcs.)
1	18	33.5	60	49	10
2	18	33.5	60	49	10
3	18	33.5	60	49	10
4	18	33.5	60	50	10

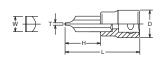
3000-50 (PZ)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
PZ1	18	23.5	50	50	10
PZ2	18	23.5	50	50	10
PZ3	18	23.5	50	50	10

### 3005-60



Bit Sockets for Slotted Heads Steckschlüssel für Schlitzschrauben Douilles tournevis pour vis à fente





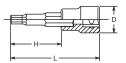
3005	T×W (mm)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
5	1.0× 5.5	18	33.5	60	47	10
8	1.2× 8	18	33.5	60	49	10
10	1.6×10	20	33.5	60	85	10



# 3010M-38/-62/-100/-160 3010A-50







3010M-38 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3	18	11.5	38	27	10
4	18	11.5	38	28	10
5	18	11.5	38	30	10
6	18	11.5	38	31	10
7	18	11.5	38	32	10
8	18	11.5	38	33	10
9	20	11.5	38	47	10
10	20	11.5	38	48	10
11	20	11.5	38	59	10
12	20	11.5	38	60	10
13	22	11.5	38	76	5
14	22	11.5	38	78	5

3010M-100 (mm)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
3	18	73.5	100	58	10
4	18	73.5	100	60	10
5	18	73.5	100	63	10
6	18	73.5	100	64	10
7	18	73.5	100	66	10
8	18	73.5	100	69	10
9	20	73.5	100	100	10
10	20	73.5	100	102	10
11	20	73.5	100	129	10
12	20	73.5	100	131	10
13	22	73.5	100	158	5
14	22	73.5	100	160	5

3010M-62 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3	18	35.5	62	43	10
4	18	35.5	62	45	10
5	18	35.5	62	48	10
6	18	35.5	62	49	10
7	18	35.5	62	50	10
8	18	35.5	62	62	10
9	20	35.5	62	75	10
10	20	35.5	62	76	10
11	20	35.5	62	92	10
12	20	35.5	62	94	10
13	22	35.5	62	107	5
14	22	35.5	62	109	5

3010M-160 (mm)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
3	18	133.5	160	84	10
4	18	133.5	160	86	10
5	18	133.5	160	89	10
6	18	133.5	160	90	10
7	18	133.5	160	92	10
8	18	133.5	160	95	10
9	20	133.5	160	125	10
10	20	133.5	160	128	10
11	20	133.5	160	153	10
12	20	133.5	160	157	10
13	22	133.5	160	237	5
14	22	133.5	160	239	5

	3010A-50 (inch)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
New	1/8	18	23.5	50	35	10
New	5/32	18	23.5	50	36	10
New	3/16	18	23.5	50	36	10
New	7/32	18	23.5	50	38	10
New	1/4	18	23.5	50	40	10
New	9/32	18	23.5	50	42	10
New	5/16	18	23.5	50	44	10
New	11/32	20	23.5	50	59	10
New	3/8	20	23.5	50	60	10
New	7/16	20	23.5	50	74	10
New	1/2	22	23.5	50	91	5

RS3010M/8-L38	8 Pieces Set/Rail 200mm	₫Д (g)
3, 4, 5, 6	, 7, 8, 10, 12	322
RS3010M/8-L62	8 Pieces Set/Rail 200mm	₫∄ (g)
3, 4, 5, 6	, 7, 8, 10, 12	490
RS3010M/8-L100	8 Pieces Set/Rail 200mm	₫Д (g)
3, 4, 5, 6	, 7, 8, 10, 12	645
RS3010A/8-L50	8 Pieces Set/Rail 200mm	₫∄ (g)
1/8, 5/32, 3/16, 7/3	400	

RS3010M/8-L38 RS3010M/8-L62 RS3010M/8-L100 • RS3010A/8-L50







Hand Steckschlüssel
Douilles à main Douilles à main

### 3012M-25 •



Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux





3012M-25 (mm)	D (mm)	L (mm)	₫∄ (g)	(pcs.)
14	19	25	30	10
17	19	25	30	10

For Lubrication Service Schmierdienst-Werkzeuge Service lubrification-vidange

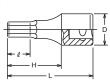
# 3012A -52/-62/-75



3012M-52/-62/-75 Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux







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<u>_</u>	_

Do not use with a power or impact wrench.
Bitte nicht auf Schlagschrauber oder anderen Maschinen gebrauchen. À ne pas utiliser sur des machines

3012M-52 (mm)	D (mm)	ل (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
3	18	10	34	52	35	10
4	18	15.5	34	52	38	10
5	18	15.5	34	52	40	10
6	18	15.5	34	52	42	10
7	18	15.5	34	52	46	10
8	18.5	15.5	34	52	50	10
9	18.5	15.5	34	52	55	10
10	20	15.5	34	52	66	10
11	20	15.5	34	52	72	10
12	20	15.5	34	52	77	10
13	20	15.5	34	52	82	10
14	20	15.5	34	52	89	10

3012M-62 (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3	18	10	44	62	38	10
4	18	15.5	44	62	40	10
5	18	15.5	44	62	43	10
6	18	15.5	44	62	46	10
7	18	15.5	44	62	53	10
8	18.5	15.5	44	62	58	10
9	18.5	15.5	44	62	63	10
10	20	15.5	44	62	77	10
11	20	15.5	44	62	83	10
12	20	15.5	44	62	90	10
13	20	15.5	44	62	95	10
14	20	15.5	44	62	109	10

3012M-75 (mm)	D (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3	18	10	57	75	41	10
4	18	15.5	57	75	43	10
5	18	15.5	57	75	48	10
6	18	15.5	57	75	53	10
7	18	15.5	57	75	58	10
8	18.5	15.5	57	75	72	10
9	18.5	15.5	57	75	92	10
10	20	15.5	57	75	114	10
11	20	15.5	57	75	120	10
12	20	15.5	57	75	127	10
13	20	15.5	57	75	132	10
14	20	15.5	57	75	146	10

3012A-52 (inch)	D (mm)	ل (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
1/8	18	10	34	52	35	10
5/32	18	15.5	34	52	38	10
3/16	18	15.5	34	52	40	10
7/32	18	15.5	34	52	42	10
1/4	18	15.5	34	52	44	10
9/32	18	15.5	34	52	46	10
5/16	18.5	15.5	34	52	50	10
11/32	18.5	15.5	34	52	55	10
3/8	20	15.5	34	52	65	10
7/16	20	15.5	34	52	72	10
1/2	20	15.5	34	52	82	10
9/16	20	15.5	34	52	89	10

3012A-62 (inch)	D (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
1/8	18	10	44	62	38	10
5/32	18	15.5	44	62	40	10
3/16	18	15.5	44	62	43	10
7/32	18	15.5	44	62	46	10
1/4	18	15.5	44	62	48	10
9/32	18	15.5	44	62	53	10
5/16	18.5	15.5	44	62	58	10
11/32	18.5	15.5	44	62	63	10
3/8	20	15.5	44	62	73	10
7/16	20	15.5	44	62	83	10
1/2	20	15.5	44	62	95	10
9/16	20	15.5	44	62	109	10

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3012A-75 (inch)	D (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
1/8	18	10	57	75	41	10
5/32	18	15.5	57	75	43	10
3/16	18	15.5	57	75	48	10
7/32	18	15.5	57	75	53	10
1/4	18	15.5	57	75	53	10
9/32	18	15.5	57	75	58	10
5/16	18.5	15.5	57	75	72	10
11/32	18.5	15.5	57	75	92	10
3/8	20	15.5	57	75	110	10
7/16	20	15.5	57	75	120	10
1/2	20	15.5	57	75	132	10
9/16	20	15.5	57	75	146	10

	3011M-62 (mm)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	
	3	18	35.5	62	45	10	
	4	18	35.5	62	46	10	
	5	18	35.5	62	48	10	
	6	18	35.5	62	49	10	
	7	18	35.5	62	50	10	
	8	18	35.5	62	51	10	
ew	10	20	35.5	62	66	10	
lew	12	20	35.5	62	79	10	

3011M-100 (mm)	D (mm)	H (mm)	L (mm)	₫'∆ (g)	(pcs.)
3	18	73.5	100	61	10
4	18	73.5	100	62	10
5	18	73.5	100	64	10
6	18	73.5	100	65	10
7	18	73.5	100	67	10
8	18	73.5	100	68	10

3011M-120 (mm)	D (mm)	H (mm)	L (mm)	∆~∆ (g)	(pcs.)
3	18	93.5	120	77	10
4	18	93.5	120	78	10
5	18	93.5	120	80	10
6	18	93.5	120	81	10
7	18	93.5	120	83	10
8	18	93.5	120	84	10

3011M-160 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3	18	133.5	160	87	10
4	18	133.5	160	88	10
5	18	133.5	160	89	10
6	18	133.5	160	91	10
7	18	133.5	160	93	10
8	18	133.5	160	95	10

Ball point bit sockets have less strength due to the special design. Make sure to use them correctly.

3015M-62 (mm)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
3	18	35.5	62	43	10
4	18	35.5	62	45	10
5	18	35.5	62	50	10
6	18	35.5	62	50	10
7	18	35.5	62	50	10
8	18	35.5	62	62	10
10	10 20		62	75	10
12	20	35.5	62	95	10

3015M-100 (mm)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
3	18	73.5	100	60	10
4	18	73.5	100	60	10
5	18	73.5	100	65	10
6	18	73.5	100	65	10
7	18	73.5	100	70	10
8	18	73.5	100	70	10
10	20	73.5	100	105	10
12	20	73.5	100	135	10

Grip Ring holds hex screws

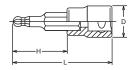
RS3015M/8-L62	8 Pieces Set/Rail 200mm	₫∄ (g)			
3, 4, 5, 6	5, 7, 8, 10, 12	500			
RS3015M/8-L100	8 Pieces Set/Rail 200mm	₫∄ (g)			
3, 4, 5, 6, 7, 8, 10, 12					

### 3011M-62/-100/-120/-160

Ballpoint Inhex Sockets
Steckschlüssel mit Kugelkopf, für Innensechskant-Schrauben
Douilles tournevis avec tête sphérique pour vis 6-pans creux

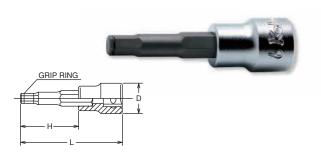






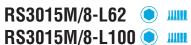
# 3015M-62/-100 •













Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



Hand Steckschlüssel
Douilles à main

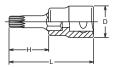
# 3020-38/-50/-100/-120



XZN Bit Sockets Steckschlüssel für XZN Schrauben Douilles tournevis pour empreinte XZN







3020-38 (XZN)	D (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
M 5	18	11.5	38	32	10
M 6	18	11.5	38	33	10
М 8	18	11.5	38	36	10
M10	20	11.5	38	51	10
M12	20	11.5	38	52	10
M14	22	11.5	38	74	10

3020-50 (XZN)	(XZN) (mm)		L (mm)	Д¯Д (g)	(pcs.)
M 4	18	23.5	50	35	10
M 5	18	23.5	50	37	10
M 6	18	23.5	50	39	10
M 8	18	23.5	50	40	10
M10	20	23.5	50	65	10
M12	20	23.5	50	69	10
M14	22	23.5	50	75	10

3020-100 (XZN)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
M 4	18	73.5	100	57	10
M 5	18	73.5	100	59	10
М 6	18	73.5	100	61	10
M 8	18	73.5	100	62	10
M10	20	73.5	100	99	10
M12	20	73.5	100	103	10
M14	22	73.5	100	145	5

3020-120 (XZN)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
M 4	18	93.5	120	77	10
M 5	18	93.5	120	79	10
M 6	18	93.5	120	81	10
M 8	18	93.5	120	82	10
M10	20	93.5	120	119	10
M12	20	93.5	120	123	10
M14	22	93.5	120	165	5



XZN	M4	M5	M6	M8	M10	M12	M14	M16	M18
S <sub>1</sub> (ref. mm)	3.6	4.8	6.1	7.3	9.7	11.5	13.3	15.7	16.9
S <sub>2</sub> (ref. mm)	3.1	4.1	5.1	6.1	8.1	9.7	11.2	13.2	14.2





RS3020/6-L38	6 Pieces Set/Rail 150mm	(g)
M5, M6, M8, M10	), M12, M14	308

# RS3020/7-L50 (\*)





RS3020/7-L50	7 Pieces Set/Rail 200mm	₫∄ (g)
M4, M5, M6,	M8, M10, M12, M14	400

3025-38 (T)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
T 9	18	11.5	38	32	10
T10	18	11.5	38	32	10
T15	18	11.5	38	33	10
T20	18	11.5	38	33	10
T25	18	11.5	38	33	10
T27	18	11.5	38	33	10
T30	18	11.5	38	33	10
T40	18	11.5	38	34	10
T45	18	11.5	38	37	10

38

38

49

57

10

10

320

11.5

11.5

20

20

3025-50 (T)	D (mm)	H (mm)	L (mm)	Ø∄ (g)	(pcs.)
T 9	18	23.5	50	36	10
T10	18	23.5	50	36	10
T15	18	23.5	50	36	10
T20	18	23.5	50	36	10
T25	18	23.5	50	37	10
T27	18	23.5	50	37	10
T30	18	23.5	50	38	10
T40	18	23.5	50	39	10
T45	18	23.5	50	41	10
T50	20	23.5	50	55	10
T55	20	23.5	50	67	10

# 3025-38/-50/-140 (T) 🌲



TORX® Bit Sockets TORX® Bit-Steckschlüs





# (T) S1

**TORX**®

T50

T55

	T	T8	Т9	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	T60	T70	T80	T90	T100
S <sub>1</sub>	(ref. mm)	2.3	2.5	2.7	3.3	3.9	4.5	5.0	5.6	6.7	7.9	8.9	11.3	13.3	15.6	17.6	20.0	22.2
S <sub>2</sub>	(ref. mm)	1.7	1.8	2.0	2.3	2.8	3.2	3.6	4.0	4.8	5.6	6.2	8.0	9.5	11.1	12.7	14.2	15.8

RS3025/8-L38	8 Pieces Set/Rail 200mm	ДД (g)			
T10, T15, T20, T25, T27, T30, T40, T45					
RS3025/8-L50	8 Pieces Set/Rail 200mm	ДД (g)			

3025-50	D	H	L	₫Д	(pcs.)
(T)	(mm)	(mm)	(mm)	(g)	
T35	18	23.5	50	39	10

T10, T15, T20, T25, T27, T30, T40, T45

3025-100R (T)	D (mm)	H (mm)	L (mm)	∆ Д (g)	(pcs.)
T20	18	73.5	100	38	10
T25	18	73.5	100	40	10
T27	18	73.5	100	42	10
T30	18	73.5	100	45	10
T40	18	73.5	100	52	10
T45	18	73.5	100	73	10
T50	20	73.5	100	80	10
T55	20	73.5	100	106	10

RS3025/8-L100R	8 Pieces Set/Rail 200mm	₫∄ (g)
T20, T25, T27, T30,	T40, T45, T50, T55	490

# RS3025/8-L38/-L50 (T)





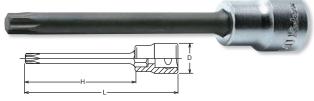
3025-50-T35





3025-100R (T)





RS3025/8-L100R



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



ШШ

Douilles à main



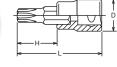


**3025-50/-160 (TH)**Tamper Resistant TORX® Bit Sockets Tamper Resistant TORX® Bit-Steckschlüssel Douilles tournevis, Tamper-Resistant TORX®



3025-50 (TH)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
T10H	18	23.5	50	37	10
T15H	18	23.5	50	38	10
T20H	18	23.5	50	38	10
T25H	18	23.5	50	38	10
T27H	18	23.5	50	38	10
T30H	18	23.5	50	39	10
T40H	18	23.5	50	40	10
T45H	18	23.5	50	41	10
T50H	20	23.5	50	61	10
T55H	20	23.5	50	61	10

3025-160 (TH)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
T25H	18	133.5	160	83	10
T27H	18	133.5	160	83	10
T30H	18	133.5	160	84	10
T40H	18	133.5	160	85	10
T45H	18	133.5	160	86	10
T50H	20	133.5	160	128	10
T55H	20	133.5	160	128	10







Tamper Resistant TORX® Bit Sockets have less strength due to special design. Make sure to use it correctly.

> Bitte beachten Sie die geringere Belastbarkeit der Tamper Resistant Torx Steckschlüssel.

> Veuillez respecter la moindre capacité inférieure de charge des douilles Tamper Resistant Torx

RS3025/9-HOLE	9 Pieces Set/Rail 200mm	Ø∄ (g)			
T10H, T15H, T20H, T25H, T27H,					

RS3025/9-L50 (TH) Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail







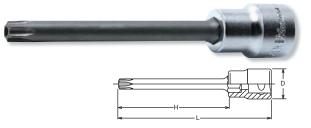
3247 🔯





3025-100R (TH)





R\$3025/8-L100RH 🔯 📖



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



3247	4 Pieces Set/ὧື≟=385g			
PLASTIC BAG				
Sock	ets			
3025.160 Tamper-Resistant TORX® Bit Sockets T27H, T30H, T40H, T50H				

3025-100R (TH)	D (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
T20H	18	73.5	100	38	10
T25H	18	73.5	100	40	10
T27H	18	73.5	100	42	10
T30H	18	73.5	100	45	10
T40H	18	73.5	100	52	10
T45H	18	73.5	100	73	10
T50H	20	73.5	100	80	10
T55H	20	73.5	100	106	10

RS3025/8-L100RH	8 Pieces Set/Rail 200mm	₫Д (g)
T20H, T25H, T27H, T30H, T40H, T45H, T50H, T55H		

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TORX° ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX° est une marque déposée de Acument Intellectual Properties, LLC.

3025-50	(IP)





#### **TORX Plus®**

3025-50 (IP)

10IP

15IP

20IP

25IP

27IP

30IP

40IP

**45IP** 

50IP

55IP

(IP)	
S <sub>2</sub>	\$1

IP		8IP	9IP	10IP	15IP	20IP	25IP	27IP	30IP	40IP	45IP	50IP	55IP	60IP	70IP
S <sub>1</sub>	(ref. mm)	2.3	2.5	2.7	3.3	3.9	4.5	5.0	5.6	6.7	7.9	8.9	11.3	13.3	15.6
S <sub>2</sub>	(ref. mm)	1.7	1.8	2.0	2.3	2.8	3.2	3.6	4.0	4.8	5.6	6.2	8.0	9.5	11.1

RS3025/8-IP	8 Pieces Set/Rail 200mm	₫∄ (g)
20IP, 25IP, 27IP, 30I	P, 40IP, 45IP, 50IP, 55IP	370

23.5

23.5

23.5

23.5

23.5

23.5

23.5

23.5

23.5

23.5

18

18

18

18

18

18

18

18

20

20

50

50

50

50

50

50

50

50

50

50

∆`∆ (g)

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38

38

38

40

40

41

41

61

61

10

10

10

10

10

10

10

10

10

10

# RS3025/8 (IP) Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



1/4" + 3/8" + 1/2"





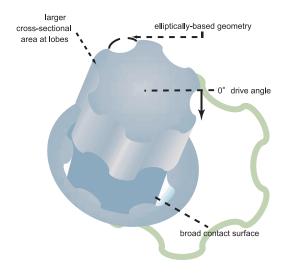












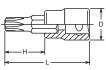
Hand Steckschlüssel Douilles à main

### 3025-50 (PR) 🕥



Penta-Lobe Bit Sockets, with hole 5 Stern, mit Stirnbohrung Empreinte penta avec trou





15PR 3.1

2.8

3025-50 (PR)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
10PR	18	23.5	50	38	10
15PR	18	23.5	50	38	10
20PR	18	23.5	50	38	10
25PR	18	23.5	50	38	10
27PR	18	23.5	50	40	10
30PR	18	23.5	50	40	10
40PR	18	23.5	50	41	10
45PR	18	23.5	50	41	10
50PR	20	23.5	50	61	10
55PR	20	23.5	50	61	10

#### Penta-Lobe



PF	3
S <sub>1</sub>	(ref. mm)
S <sub>2</sub>	(ref. mm)

		L	>
	8PR	9PR	10PR
. mm)	2.2	2.4	2.6

2.2

2.4

20PR	25PR	27PR	30PR	40PR	45PR	50PR	55PR
3.6	4.1	4.7	5.2	6.3	7.4	8.4	10.6
3.3	3.8	4.3	4.8	5.7	6.7	7.6	9.7



RS3025/9 (PR) Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

2.0



RS3025/9-PR (g) 10PR, 15PR, 20PR, 25PR, 27PR, 30PR, 40PR, 395 45PR, 50PR



RSX025/11 (PR) Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

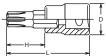


3027-50/-100



Bit Sockets for Ribe Screws Steckschlüsselklingen für Ribe Schrauben Douilles tournevis pour écrous profil Ribe





RSX025/11-F	PR 11 Pieces Set/Rail 200mm	Ø∆ (g)
2025.28(PR)	8PR, 10PR, 15PR, 20PR, 25PR, 27PR, 30PR	320
3025.50(PR)	40PR, 45PR, 50PR, 55PR	

1/4" + 3/8"

3027-50	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
M 5	18	23.5	50	38	10
M 6	18	23.5	50	38	10
M 7	18	23.5	50	38	10
M 8	18	23.5	50	39	10
М 9	20	23.5	50	40	10
M10	20	23.5	50	40	10
M12	20	23.5	50	41	10

3027-100	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
M 5	18	73.5	100	40	10
M 6	18	73.5	100	42	10
M 8	18	73.5	100	45	10
M10	20	73.5	100	52	10
M12	20	73.5	100	73	10

Ribe CV

1	С	V	M5	M6	M7	M8	M9	M10	M12	M13	M14	M16
S <sub>1</sub>	W	(ref. mm)	1.2	1.3	1.4	1.8	2.0	2.3	2.6	3.1	3.2	3.6
	S <sub>1</sub>	(ref. mm)	5.0	6.0	7.0	8.0	9.0	10.0	12.0	13.0	14.0	16.0
52	S <sub>2</sub>	(ref. mm)	3.8	4.5	5.0	6.0	7.1	7.4	9.0	11.0	10.4	11.9
14/												

RS3027/5-L50



ШШ

Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



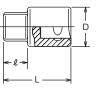
RS3027/5-L50	5 Pieces Set/Rail 150mm	Д^Д (g)			
M5, M6, M8, M10, M12					



3110M / 3110A



4-point Male Sockets Öldienst-Steckschlüssel Douilles mâles 4-pans





3110M (mm) D (mm) 3/8" 

3110A (inch)		D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
5/16	3/8"	18	10	28	30	10
3/8		18	10	28	33	10
1/2		18	10	28	37	10

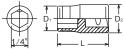
	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫₫ (g)	(pcs.)
3137	3/8"	13	16.5	30	30	10

For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts











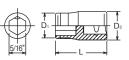
	Ø	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫₫ (g)	(pcs.)
3138	3/8"	16	18	38	55	10

For DIN3126 C8 Bits Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts





Bit Holder Klingenhalter Porte-embouts

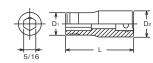




#### 3/8"

#### 

Bit Holder, extra deep for 131P-80, 131S-80, 131T-80 Klingenhalter, extra tief für 131P-80, 131S-80, 131T-80 Porte-embouts, ouverture longue pour 131P-80, 131S-80, 131T-80







Hand Steckschlüssel Douilles à main





Reversible Ratchet (Short) Knarre kurz, verstellbar Cliquet courte, réversible





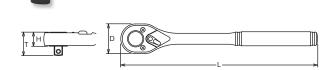




Reversible Ratchet Knarre, verstellbar Cliquet, réversible







37498

Reversible Ratchet (Short) Knarre kurz, verstellbar Cliquet courte, réversible

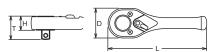


#### 3749SB

Reversible Ratchet with quick release button Knarre, verstellbar mit Verriegelungsknopf Cliquet, réversible avec bouton de débrayage



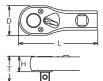




#### 3753SM

Multi Purpose Ratchet, reversible Knarre mir 2 Vierkantöffnungen, umstellbar Cliquet réversible deux carrés femelles, réversibles

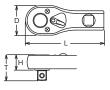




#### 3753SMB

Multi Purpose Ratchet, reversible, with quick release button Knarre mit 2 Vierkantöffnungen, mit Verriegelungsknopf, umstellbar Cliquet réversible deux carrés, avec bouton de débrayage









\* Renewal Kits → 2749RK-3/8 → P286

	D (mm)	T (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
2749PS-3/8	25	21.9	11.2	75	70	10





\* Renewal Kits → 2749RK-3/8 → P286

	D (mm)	T (mm)	H (mm)	L (mm)	₫ <u>∄</u> (g)	(pcs.)
2749P-3/8	25	21.9	11.2	125	101	10

2749-3/8 series have less strength compared with normal 38' ratchet due to the technical design. Make sure to use the ratchet correctly.







\* Renewal Kits - 3749RK









\* Renewal Kits → 3749BRK → P28

	D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3749S	34	24.8	14.1	110	183	5
3749SB	34	24.8	14.1	110	183	5



Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.







Kits → 3753RK	→P286

	D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
3753SM	30.5	26.4	15.7	81	175	5











\* Renewal Kits → 3753BRK → P286

	D (mm)	T (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
3753SMB	30.5	26.4	15.7	81	175	5





## Hand Steckschlüssel Douilles à main









\* Renewal Kits → 3752RK → P286





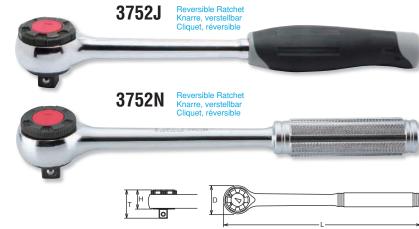
\* Renewal Kits → 3752RK → P286

A pointer and L/R markings on the ratchet head Indicate the turning direction.
The reduced diameter of the head allows easier access in tight spots.

Eine L/R Markierung auf dem Knarrenkopf zeigt die gerade eingestellte Drehrichtung an. Der geringe Kopfdurchmesser erleichtert das Arbeiten auch an schwer zugänglichen Stellen.

Un marquage L/R sur la tête de cliquet indique le sens de rotation. Le diamètre de tête réduit facilite le travail dans les endroits difficilement accessibles.

		D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
	3752J	33	34.3	23.9	200	310	1
New	3752N	33	34.3	23.9	200	310	1



Reversible Ratchet

Knarre, verstellbar Cliquet, réversible

Reversible Ratchet Knarre, verstellbar Cliquet, réversible

3753J

3753P

3753N





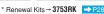


\* Renewal Kits → 3753RK → P286

















\* Renewal Kits → 3753RK









\* Renewal Kits → 3753RK → P286



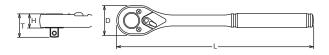
Reversible Ratchet Knarre, verstellbar Cliquet, réversible



3753P-250



		D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
	3753J	30.5	26.4	15.7	200	260	1
	3753P	30.5	26.4	15.7	200	286	1
New	3753N	30.5	26.4	15.7	200	320	1
	D3753J	30.5	26.4	15.7	200	260	1



Reversible Ratchet (Long) Verstellbare Knarre, lang Cliquet réversible, long





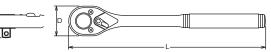








	D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
3753P-250	30.5	26.4	15.7	250	335	1







Reversible Ratchet with quick release button Knarre, verstellbar mit Verriegelungsknopf Cliquet, réversible avec bouton de débrayage











\* Renewal Kits → 3753BRK → P286

### 3753PB

Reversible Ratchet with quick release button Knarre, verstellbar mit Verriegelungsknopf Cliquet, réversible avec bouton de débrayage

















\* Renewal Kits → 3753BRK → P28



Reversible Ratchet with quick release button Knarre, verstellbar mit Verriegelungsknopf Cliquet, réversible avec bouton de débrayage





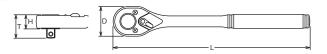




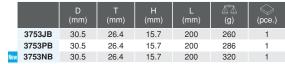


\* Renewal Kits → 3753BRK → P286





Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.



#### 2774JS-3/8

Flexible Ratchet, reversible Gelenk-Knarre, verstellbar Cliquet articulé, réversible











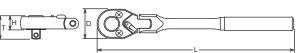
\* Renewal Kits → 2749RK-3/8 → P286

#### 2774PS-3/8

Flexible Ratchet, reversible Gelenk-Knarre, verstellbar Cliquet articulé, réversible













\* Renewal Kits → 2749RK-3/8 → P286

	D (mm)	T (mm)	H (mm)	L (mm)	ДĨД (g)	(pcs.)
2774JS-3/8	25	21.9	11.2	120	113	5
2774PS-3/8	25	21.9	11.2	120	133	5

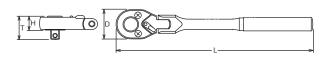


2774-3/8 series have less strength compared with normal 38 ratchet due to the 2774-3/8 series have less strength compaction technical design. Make sure to use the ratchet correctly.

#### 3774PS

Flexible Ratchet, reversible Gelenk-Knarre, verstellbar Cliquet articulé, réversible



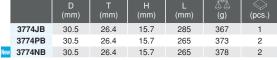


S.O.D.H-System Two-Step Dog	<b>24</b>	Plexible He
* Renewal Kits → 3753RK	→P286	

	D (mm)	T (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
3774PS	30.5	26.4	15.7	175	250	2



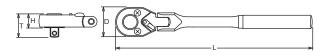




Reversible Ratchet with quick release button has less strength compared with

normal ratchet due to the technical design. Make sure to use the ratchet correctly.







#### Reversible Ratchet with Quick Release Button :

Sockets and accessories are safely locked. By pushing the button the sockets or extension bars are released from the ratchet.

#### Umstellbare Knarre mit Verriegelungsknopf :

Steckschlüssel und Zubehörteile werden sicher und fest gehalten. Bei Drücken des Knopfes lösen sich die Teile.

Cliquet réversible à verrouillage : Les douilles et accessoires ne peuvent plus se libérer. Une pression du pouce sur le bouton suffit pour les extraire.

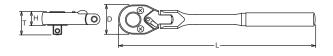


Flex-Head Ratchet with Head Lock Button Gelenk-Knarre, mit feststellbarem Gelenk Cliquet à tête articulée avec bouton de blocage 377/PI



	* Renewal Kits → 3753RK → P286	0//41 L
00	Tichenarius Violin Pares	3774NL
P	N	E-24 (F/2) (F-2)

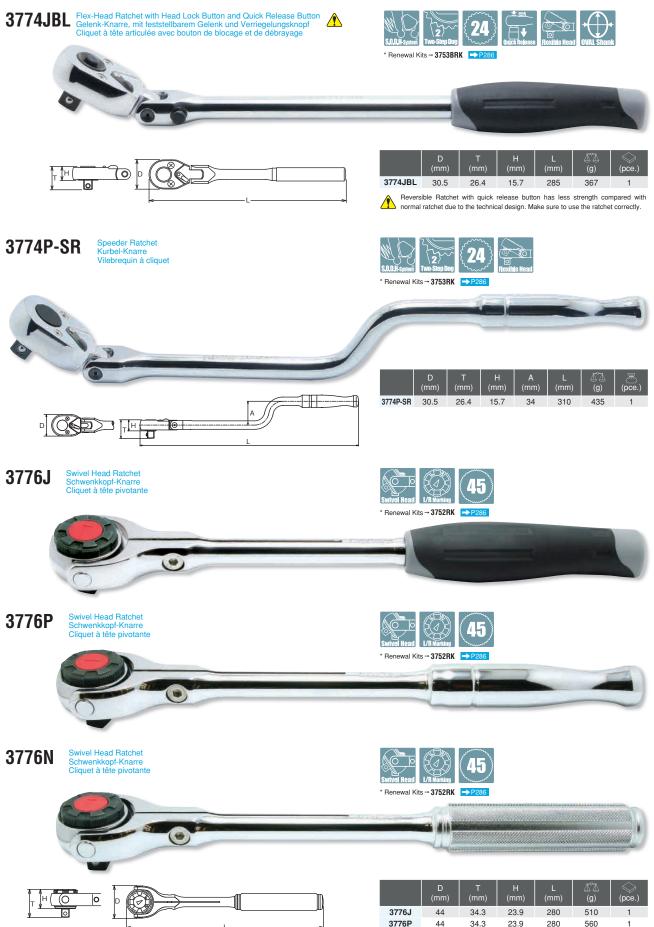
		D (mm)	T (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
	3774JL	30.5	26.4	15.7	285	367	1
	3774PL	30.5	26.4	15.7	265	378	2
New	3774NL	30.5	26.4	15.7	265	378	2











New 3776N

44

34.3

23.9

280

565

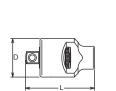


5

\* Renewal Kits - 3755RK - P288



146



Ratchet Adaptor Aufsteckknarre Cliquet adaptable

3755



Д Д (g) 25.5 30.5 3756 47 10

55

D (mm)

30.5

3755

Quick Spinner Rändel-Drehscheibe Lanceur 3756









\* Renewal Kits → 3752RK → P286

	g=17=g	$\sim$

(g)

155

(mm)

35

(mm)

50

Ratchet Wheel Umstellbares Knarren-Handrad Cliquet réversible à roue 3757







3762



	D (mm)	L (mm)	ДŽ (g)	(pcs.)
3762	19.3	300	178	2



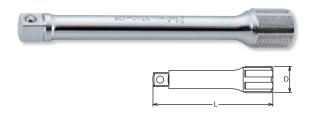
Hand Steckschlüssel

Douilles à main Douilles à main



## 3760-32/-50/-75/-125/-150/-250/-300/ -400/-500/-600/-900/-1000

Verlängerungen Rallonges



3760	D (mm)	L (mm)	Ø∄ (g)	(pcs.)
32	18	32	27	10
50	18	50	47	10
75	18	75	68	10
125	18	125	106	10
150	18	150	125	10
250	18	250	196	5
300	18	300	291	2
400	18	400	365	1
500	18	500	490	1
600	18	600	538	1
900	18	900	805	1
1000	18	1000	968	1

#### PK3760/6

Extension Set in Plastic Box Verlängerungen in Kunststoffkassette Jeu de rallonges en boîte plastique



#### 6 Pieces Set/ຝື∄=670g PK3760/6 PLASTIC TRAY 3760 Extension Bars 32, 50, 75, 125, 150, 250 Rotation and general handling of extensions with oily

hands is greatly improved with the **Koken** developed 6 point knurling. Also the **Koken** 6 point knurling stops the extensions from rolling around the work area



Durch die von Korken entwickelte 6 fache Rändelung wird die Handhabung deutlich

erleichtert. Außerdem wird das Herumrollen der Verlängerungen wirksam verhindert La manipulation des rallonges est grandement facilitée par le profil moleté développé par

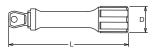
Kokon. Ce méme profile empèche le roulement intempestif des rallonges sur le plan de travail.

## 3763-32/-50/-75/-125/-150/-250/-300

Wobble-Fix Extension Bars Winkel-Verlängerungen Rallonges angulaires









3763	D (mm)	L (mm)	₫∄ (g)	(pcs.)
32	18	32	26	10
50	18	50	42	10
75	18	75	57	10
125	18	125	80	10
150	18	150	98	10
250	18	250	144	5
300	18	300	170	2

#### PK3763/6

Wobble-Fix Extension Bars in Plastic Box Winkel-Verlängerungen in Kunststoffkassette Jeu de rallonges angulaires en boîte plastique



#### PK3763<u>/6</u> PLASTIC TRAY 3763 Wobble-Fix Extension Bars 32, 50, 75, 125, 150, 250

#### Wobble-Fix Extension Bar

Two way usage

a) In a fixed position, as a normal extension bar

b) In a half-fixed position, as a flexible extension bar providing a 15° angle operation

#### Winkel-Verlängerungen

Winkelverlängerungen lassen sich Einstellungen verwenden

a) voll eingesteckt und starr,

b) halb eingesteckt, mit elnem Arbeitswinkel von 15°.

Rallonges angulaires
Deux utilisations possibles

a) comme rallonge normale, dans une position fixe

b) comme une rallonge angulaire avec une possibilité d'inclinaison jusqu'à  $15^{\circ}$ 



The Wobble-Fix Extension Bar has less strength than normal extension bar due to it's specific design with a reduced square drive. Make sure to use it correctly.





3768J-250

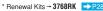
Hinge Handle Gelenkgriff Poignée articulée





3768P-250

Hinge Handle Gelenkgriff Poignée articulée





\* Renewal Kits → 3768RK → P288

3768P-380

Hinge Handle Gelenkgriff Poignée articulée





	D (mm)	L (mm)	Ø⊅ (g)	(pcs.)
3768J-250	20.5	250	248	2
3768P-250	20.5	250	275	5
3768P-380	20.5	380	435	2



3768-380 have longer handle than standard, and can be loaded to excessive torque value. In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.

Der Gelenkgriff 3768-380 ist länger als die Standardversion. Aus Gründen Ihrer Sicherheit, sollten dies Werkzeug nie ruckartig sondern nach und nach belastet werden, um Bruch und damit verbundene, mögliche Verletzungen zu vermeiden.

Dû au fait que les manches des 3768-380 sont plus longues que le standard, il y a risque d'une surcharge excessive lors du serrage. Pour éviter casse et blessure, veuillez serrer d'une façon régulière et progressive.

3769N	l (mm)	L (mm)	ДД (g)	(pcs.)
160	50	160	96	2
230	120	230	126	2



3769NWF	ل (mm)	L (mm)	₫ <u>¯</u> (g)	(pcs.)
160	50	160	96	2
230	120	230	126	2

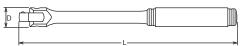


Plastic or rubber handles are not intended to act as insulation.

Plastik-oder Gummigriffe stellen keinen Isolierschutz dar.

Les poignées en plastique ou en caoutchouc ne garantissent aucune isolation électrique.

	L (mm)	Д°Д (g)	(pcs.)
3769H	170	210	2





Spin Type Handle Drehgriff Poignée emmanchée



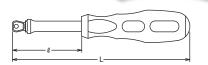
Les Caron



#### 3769NWF-160/-230

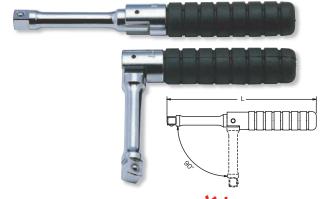
Spin Type Handle Wobble-Fix Drehgriff, Wobble-Fix Poignée emmanchée, angulaire



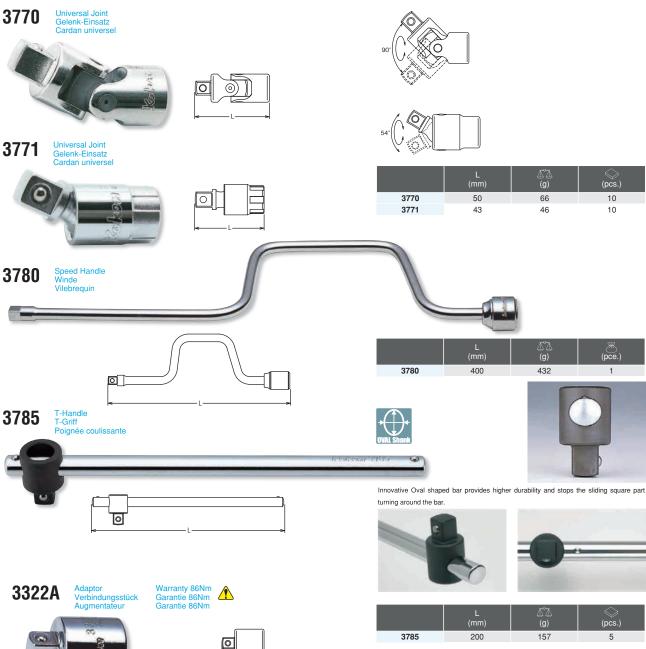


3769H

Folding Socket Driver Klapp-Drehgriff



Hand Steckschlüssel
Douilles à main







Adaptor Verbindungsstück Augmentateur 3344A





PK2346/6

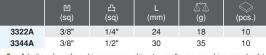
Adaptor Set in Plastic Box Adaptor Satz in Kunststoffkassette Jeu de adaptateur en boîte plastique



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1/4" X 3/8"		
3/8" X 1/4"	Warranty/Garantia	86Nm
3/8" X 1/2"		
1/2" X 3/8"	Warranty/Garantia	290Nm
1/2" X 3/4"		
	3/8") X 1/4" 3/8") X 1/2" 1/2") X 3/8"	(38) X (44 Warranty/Garantia (38) X (12 (112) X (38 Warranty/Garantia

6644A (3/4") X 1/2" Warranty/Garantia 668Nm



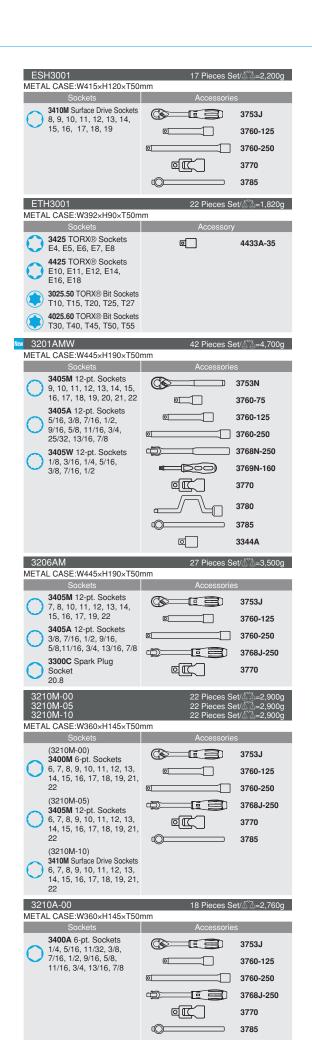
Adapting down from bigger square drive to smaller square drive may lead to excessive torque and possibly cause breakage. Reduzierstücke sind mit Vernunft einzusetzen.

Es besteht Bruchgefahr. Überschreiten Sie niemals die Sicherheitsgrenzen.

Les réducteurs doivent être utilisés avec modération. Ne dépassez jamais la limites de sécurité.

PK2346/6 PLASTIC TRAY	6 Pieces Set/ὧື]=460g
Ada	aptors
1/4"鬥→3/8"凸 2233A 3/8"鬥→1/2"凸 3344A 1/2"鬥→3/4"凸 4466A	3/8"凹→1/4"凸 3322A 1/2"凹→3/8"凸 4433A-35 3/4"凹→1/2"凸 6644A





#### ESH3001 Jeu de clés à douille



#### ETH3001

Socket Set Steckschlüssel Satz Jeu de clés à douille



#### 3201AMW

Steckschlüssel Satz Jeu de clés à douille



#### 3206AM

Socket Set Steckschlüssel Satz



#### 3210M-00 / 3210A-00 3210M-05 3210M-10

Socket Set Steckschlüssel Satz Jeu de clés à douille





Spark Plug Sockets Set Zündkerzen-Schlüssel Satz Jeu de douilles pour bougies 3216

3216 PLASTIC BAG 3300C Spark Plug Sockets  $\Box$ 3760-125 16, 20.8 3774JL

3217M-00 3217M-05 3217M-10 Socket Set Steckschlüssel Satz Jeu de clés à douille



METAL CASE:W163×H52×T33mm

(3217M-00)

9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

3405M 12-pt. Sockets

9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

(3217M-10)

3410M Surface Drive Sockets

 $9,\,10,\,11,\,12,\,13,\,14,\,15,\,16,\,17,\,18,\,19,\,20,\,21,\,22$ 

\$3240M-00 / \$3240A-00 \( \) S3240M-05 / S3240A-05





S3240M-05 3405M 177 Pieces Set/\(\bar{N}\) DISPLAY STAND:W510×H150×T230mm

	Sockets	
6mm:12pcs 7mm:12pcs 8mm:12pcs 9mm:12pcs 10mm:12pcs 11mm:12pcs	12mm:12pcs 13mm:11pcs 14mm:11pcs 15mm:10pcs 16mm: 9pcs 17mm: 9pcs	18mm:8pcs 19mm:8pcs 20mm:7pcs 21mm:7pcs 22mm:7pcs 23mm:6pcs

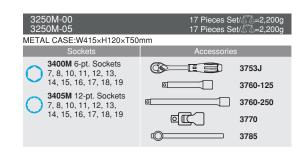
3400A 126 Pieces Set/\$\int 3405A 126 Pieces Set/\$\int 3 S3240A-00 S3240A-05

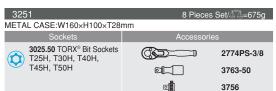
DISPLAY STAND:W510×H150×T230mm

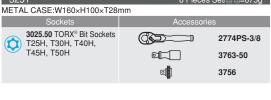
	Sockets	
1/4" :12pcs 5/16":12pcs 3/8" :12pcs 7/16":12pcs 1/2" :11pcs	9/16":10pcs 19/32":10pcs 5/8": 9pcs 11/16": 9pcs 3/4": 8pcs	25/32":7pcs 13/16":7pcs 7/8" :7pcs

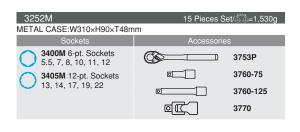
3250M-00 3250M-05 Socket Set Steckschlüssel Satz

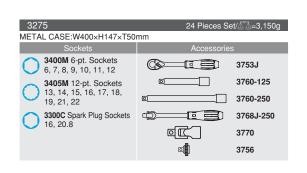


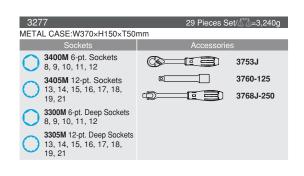


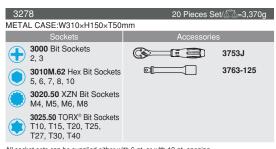












All socket sets can be supplied either with 6-pt. or with 12-pt. opening. Alle Steckschlüsselsätze sind mit 6- oder 12-kant Steckschlüsseln erhältlich Tous les coffrets de douilles peuvent être livrés en 6- ou 12-pans.

Bit Socket Set Schraubendreher-Steckschlüssel Satz Jeu de douilles de vissage 3251



Socket Set Steckschlüssel Satz Jeu de clés à douille 3252M



Socket Set Steckschlüssel Satz 3275



Socket Set Steckschlüssel Satz Jeu de clés à douille 3277



Bit Socket Set Schraubendreher-Steckschlüssel Satz 3278



Hand Steckschlüssel

Douilles à main

#### 4401M



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans

#### HANDY-ENDY®





#### 4406M



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans

HANDY-ENDY®



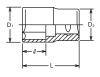


#### 4400M



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





#### 4405M



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





#### RS4401M/10



ШШ

Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS4401M/10	10 Pieces Set/Rail 300mm	Ø∑ (g)
10, 11, 12, 13, 14, 15	5, 16, 17, 18, 19	720

(pcs.)

Д¯Д (g)

13.2

13.8

15.3

16.5

17.8

20.3

21.5

22.8

26.5

27.8

32.8

36.5

37.8

41.5

44.2

45.2

46.2

47.2

48.3

49.2

53.1

59.1

31.5

4400M 4405M (mm)

24.5

8.5

9.5

12.5

15.5

16.5

19.5

20.5

22.5

10.5

#### RS4406M/10



ШШ

Socket Set on Rail Steckschlüsselsatz auf Schiene



RS4406M/10 10 Pieces Set/Rail 300mm	Д″Д (g)
10, 11, 12, 13, 14, 15, 16, 17, 18, 19	720

Hand Sockets

Both, 6-pt. and 12-pt. openings, are equipped with Flat Drive Openings, transferring the turning power from the corners on the flanks of nuts and bolts.

Sowohl 6-kant als auch 12-kant Steckschlüssel bieten alle Vorteile der "Flat Drive" Öffnung, die die Greifzonen auf die Flächen von Schrauben und Muttern versetzt.

Aussi bien les douilles 6-pans que 12-pans présentent tous les avantages liés au profil FLATDRIVE qui applique la force de serrage aux faces de la vis ou de l'écrou.

#### 4400A (



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





#### 4405A



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





RS4400A/10	10 Pieces Set/Rail 300mm	₫Д (g)
3/8, 7/16, 1/2, 9/16, 5/8	8, 11/16, 3/4, 13/16, 7/8, 15/16	809
		₹73

RS4405A/10	10 Pieces Set/Rail 300mm	Д¯Д (g)
3/8, 7/16, 1/2, 9/16, 5/8, 1	1/16, 3/4, 13/16, 7/8, 15/16	809

#### RS4400A/10 RS4405A/10





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



	6-Point	12-Point	Surface Drive	Nut Grip®	TORX® (E)	TORXplus® (EPL)	Double Square	LHSTIX® (LH-S)
1/4"	No. 2400M/A No. 2300M/A No. 2400W-BA No. 2300W-BA No. 2300X series	No. 2405M/A No. 2305M/A No. AS2405A No. AS2305A series	No. <b>2410M</b> No. <b>2310M</b> series	No. 2450MS No. 2350M No. 2350X series	No. 2425 No. 2325 series	_	No. <b>2415M/A</b> series	_
3/8"	No. 3400M/A No. 3300M/A No. 3400W No. 3300W No. 3300X/XA series	No. 3405M/A No. 3305M/A No. 3405W No. 3305W No. 3350X/XA series	No. 3410M No. 3310M series	No. 3450M No. 3350M No. 3350X series	No. 3425 No. 3325 series	_	No. 3415M/A series	No. 3400LH series
1/2"	No. 4400M/A No. 4401M No. 4300M/A No. 4400W series	No. 4405M/A No. 4406M No. 4305M/A No. 4405W series	No. 4410M No. 4310M series	No. 4450M No. 4350M series	No. 4425 No. 4325 series	No. 4425-EPL series	_	No. 4400LH series

#### 4410M



Douilles, Surface Drive





#### RS4410M/10





Steckschlüsselsatz auf Schiene



#### **SURFACE DRIVE**

Surface drive sockets are designed to retain contact with the flat sides of the nut in order to transmit higher torque and reduce nut wear.
These sockets are ideal for using on polished nuts, aluminum nuts and nuts with worn

out points.

Das Profil unserer Surface-Drive Steckschlüssel greift die Schraube an deren Flächen. Dies sichert eine höhere Kraftübertragung und verhindert ein Durchrutschen des Steckschlüssels. Diese Steckschlüssel eignen sich besonders für polierte Schrauben, Aluminium Schrauben und Schrauben bei denen die Ecker bereits abgerundet sind.

Notre profil Surface Drive assure le contact entre la douille et les plats de l'écrou. Ceci réduit l'usure et permet la transmission d'un couple plus élevé. C'est une solution idéale pour les écrous polies, celles en aluminium ou arrondies.

#### 4400W



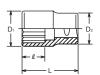
6-point Whitworth Sockets 6-kant Steckschlüssel , Whitworth Douilles à 6-pans Whitworth

#### 4405W



12-point Whitworth Sockets 12-kant Steckschlüssel , Whitworth Douilles à 12-pans Whitworth





#### RS4400W/8 RS4405W/8





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



4410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
8	13.2	21	8	36	44	10
9	13.8	21	8.5	37	44	10
10	15.3	21	9	37	45	10
11	16.5	21	9.5	37	46	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24	23	12.5	37	69	10
18	25	24	13	37	74	10
19	26.5	25	14	38	89	10
20	27.8	26	15	38	92	10
21	29	27	15.5	38	102	10
22	30	28	16	40	113	10
23	31.5	29	16.5	40	128	10
24	32.8	30	17	42	140	5
25	34	31	18	42	164	5
26	35	32	19	42	165	5
27	36.5	33	19.5	43	196	5
28	37.8	34	20	43	198	5
29	39	35	20.5	43	190	5
30	40	36	22	46	222	5
31	41.5	37	22.5	46	257	5
32	42.8	38	23	46	250	5
34	45.2	40	24	47	314	5

RS4410M/10	10 Pieces Set/Rail 300mm	₫Д (g)
10, 11, 12, 13, 14, 15	5, 17, 19, 21, 22	717

4400W 4405W (W)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
3/16	16.5	21	9.5	37	46	10
1/4	19	22	10.5	37	54	10
5/16	21.5	22	11.5	37	54	10
3/8	25	24	13	37	73	10
7/16	29	27	15.5	38	87	10
1/2	31.5	29	16.5	40	133	10
9/16	35	32	19	42	165	5
5/8	37.8	34	20	43	191	5
11/16	40	36	22	46	222	5
3/4	44.2	39	24	47	280	5

RS4400W/8	8 Pieces Set/Rail 250mm	ДД (g)
3/16, 1/4, 5/16,	3/8, 7/16, 1/2, 9/16, 5/8	860
RS4405W/8	8 Pieces Set/Rail 250mm	Ø∑ (g)
3/16, 1/4, 5/16,	3/8, 7/16, 1/2, 9/16, 5/8	860

#### BS W



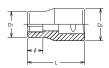
BS·W	BS	3/16BS	1/4BS	5/16BS	3/8BS	7/16BS	1/2BS	9/16BS	5/8BS	11/16BS	3/4BS	7/8BS
DO.M	W	1/8W	3/16W	1/4W	5/16W	3/8W	7/16W	1/2W	9/16W	5/8W	11/16W	3/4W
Across Flat	(ref. mm)	8.64	11.30	13.34	15.24	18.03	20.83	23.37	25.65	27.94	30.48	33.35

#### 4425-N ()



TORX® Sockets TORX® Steckschlüssel Douilles TORX®





#### RS4425/6-N



ШШ

Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



4425 (E)	D <sub>1</sub> (mm)	D₂ (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
E10N	13.2	21	8.2	36	47	10
E12N	14.6	21	9.3	37	48	10
E14N	16.5	21	10.6	37	50	10
E16N	19	22	11.8	37	60	10
E18N	20.3	22	13	37	60	10
E20N	22.8	22	14.4	37	65	10

TORX Socket for Nut and low profile bolt Shallow Chamfer on Socket Opening



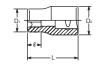
- A: Flywheel bolt MR20 NISSAN: 4425-E20N
- B : Cam sprocket FA20 for TOYOTA/SUBARU: 4425-E16N C : Connecting rod bolt FA20 for TOYOTA/SUBARU: 4425-E14N

RS4425/6-N	6 Pieces Set/Rail 200mm	(g)				
E10N. E12N. E14N. E16N. E18N. E20N						

## Hand Steckschlüssel

4425







**TORX®** (E)

E 8

E10

E11

F12

E14

E16

E18

E20

F22

E24

4425 (EPL)

10EPL

12EPL

14EPL

16EPL

18EPL

20EPL

13.2

16.5

19

20.3

22.9

10.7

13.2

13.8

14 6

16.5

20.3

22.8

25

26.5

19

21

21

21

21

22

22

22

24

25

D<sub>2</sub> (mm)

21

21

22

22

22

41

45

47

48

57

57

63

78

95

45

49

60

60

65

10

10

10

10

10

10

10

10

10

10

10

10

10

10 10

5

36

36

37

37

37

37

37

37

37

40

8.2

8.7

9.3

10.6

11.8

14.4

15.5

17



	Е	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24	E26	E28
S <sub>1</sub>	(ref. mm)	3.7	4.6	5.6	6.1	7.4	9.3	9.9	11.0	12.8	14.6	16.5	18.3	20.1	22.0	23.7	25.5
S <sub>2</sub>	(ref. mm)	2.7	3.3	4.0	4.3	5.3	6.8	7.1	7.9	9.2	10.5	11.9	13.2	14.8	15.7	17.5	18.3

RS4425/7	7 Pieces Set/Rail 200mm	₫Д (g)
E10, E12, E	14. E16. E18. E20. E24	428

ℓ (mm)

6.2

7.2

8.1

9.2

10.2

36

37

37

37

37

Socket Set on Rail RS4425/7 ШШ Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



4425 (EPL)







RS4425/6-EPL 6 Pieces Set/Rail 200mm 10EPL, 12EPL, 14EPL, 16EPL, 18EPL, 20EPL





Socket Set on Rail Steckschlüsselsatz auf Schiene ШШ



**TORX PLUS** EP/EPL-style **TORX** E-style







TORX' is a registered trademark of Acument Intellectual Properties, LLC.
TORX' ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX' est une marque déposée de Acument Intellectual Properties, LLC.

TORYMON: is a registered trademark of Acument Intellectual Properties, LLC.
TORYMON: ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORYMON: est une marque déposée de Acument Intellectual Properties, LLC.

#### Straight Sidewalls & Reduced Recess Fall Away

- Increase tool engagement
- Virtually eliminates camout · Ensures proper torque transfer
- Greatly reduces end load requirements
- Can reduce worker fatigue and muscular stress during manual assembly

#### **Elliptically-based Geometry and Lobe Engagement**

- Broadens contact surface to maximize engagement of driver and recess
- Eliminates damaging point-to-point contact

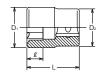
#### 0° Drive Angle

- Optimises torque transmission
- · Virtually eliminates radial stresses to increase tool bit life
- Enables use of recesses with thinner walls

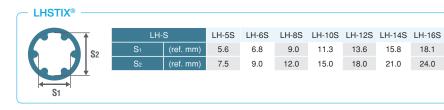
#### Six Lobes with Large Cross-Sectional Areas

- Enables faster tool engagement
- · Maximizes torque transfer
- Increases torsional strength





4400LH (LH-S)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
6S	13.2	21	5.6	36	44	10
8S	16.5	21	6.8	37	46	10
10S	19	22	8	37	53	10
12S	22.8	22	9.2	37	62	10
14S	25	24	10.4	37	74	10
16S	29	27	11.6	38	102	10





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS4400LH/6	6 Pieces Set/Rail 200mm	₫Д (g)
6S, 8S, 10S, 1	2S, 14S, 16S	430

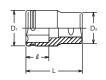
4450M



Nut Grip Sockets Nut Grip® Steckschlüssel mit 2-facher Douilles à billes de retenue Kugelhalterung







## **NUT GRIP®**

Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.

Die zwei Kugeln in der 6-kant Öffnung unserer NUT GRIP Steckschlüssel halten die Schraube sicher im Steckschlüssel. Dies erlaubt ein Arbeiten auch an schwer zugänglichen Stellen.

Les 2 billes dans l'ouverture du 6-pans de la douille retiennent l'écrou de manière sûre et efficace.

4450M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
10	15.3	21	6	36	44	10
11	16.5	21	6.5	36	46	10
12	17.8	21	7	36	46	10
13	19	22	8	36	52	10
14	20.3	22	8.5	36	54	10
15	21.5	22	9	36	52	10
16	22.8	22	9	36	60	10
17	24	23	9.5	36	68	10
18	25	24	10.5	36	77	10
19	26.5	25	11.5	36	85	10
21	29	27	12	37	110	10
22	30	28	12.5	37	105	10
24	32.8	30	14.5	39	130	5
27	36.5	33	16.5	40	139	5



RS4450M/10 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



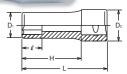
RS4450M/10	10 Pieces Set/Rail 300mm	₫Д (g)
10, 11, 12, 13, 14, 15	5, 17, 19, 21, 22	717

## Douilles à main

#### 4300M / 4300A O







4300M 4305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
8	13.2	21	9	59	77	76	10
9	13.8	21	10	59	77	82	10
10	15.3	21	11	59	77	82	10
11	16.5	21	12	59	77	86	10
12	17.8	21	13	59	77	92	10
13	19	21.8	14	59	77	106	10
14	20.3	21.8	15	59	77	115	10
15	21.5	21.8	16	59	77	123	10
16	22.8	22	17	59	77	141	10
17	24	23	18	59	77	139	10
18	25	24	19	59	77	149	10
19	26.5	25	20	58	77	165	10
20	27.8	26	21	58	77	183	10
21	29	27	23	58	77	190	10
22	30	28	27	57	77	200	10
23	31.5	29	27	57	77	233	10
24	32.8	30	27	57	77	249	10
25	34	31	27	57	77	270	10
26	35	32	27	56	77	279	10
27	36.5	33	28	56	77	303	10
28	37.8	34	28	56	77	331	10
29	39	35	28	55	77	357	10
30	40	36	34	55	77	342	10
31	41.5	37	34	55	77	384	10
32	42.8	38	34	55	77	405	10
33	44.2	39	35	54	77	420	5
34	45.2	40	35	54	77	442	5
36	47.2	41	35	53	77	484	5
37	48.2	42	38	53	77	475	5
38	49	44	38	53	77	490	5

RS4300M/10	10 Pieces Set/Rail 300mm	Ø) (g)
10, 11, 12, 13, 14, 15	5, 17, 19, 21, 22	1,415

RS4305M/10	10 Pieces Set/Rail 300mm	₫∄ (g)			
10, 11, 12, 13, 14, 15, 17, 19, 21, 22					

RS4300M /12 12 Pieces Set/I	ail 300mm (g)
10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,	1,825

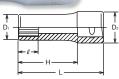
RS4300A/10	10 Pieces Set/Rail 300mm	Д¯Д (g)
3/8, 7/16, 1/2, 9/16, 5/8,	11/16, 3/4, 13/16, 7/8, 15/16	1,600
RS4305A/10	10 Pieces Set/Rail 300mm	Д¯Д (g)
2/9 7/16 1/2 0/16 E/9	11/16, 3/4, 13/16, 7/8, 15/16	1.600

## 4305M / 4305A



12-point Deep Sockets 12-kant Steckschlüssel, lang Douilles longues, 12-pans





5/16         13.2         21         9         59         77         76         10           3/8         14.6         21         10         59         77         82         10           7/16         16.5         21         12         59         77         86         10           1/2         19         21.8         14         59         77         106         10           9/16         20.3         21.8         15         59         77         115         10           19/32         21.5         21.8         16         59         77         141         10           5/8         22.8         22         17         59         77         141         10           21/32         24         23         18         59         77         141         10           21/32         24         23         18         59         77         141         10           21/32         24         23         18         59         77         141         10           3/4         26.5         24         19         59         77         149         10           3/3/2	4305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	⊕`∆ (g)	(pcs.)
7/16         16.5         21         12         59         77         86         10           1/2         19         21.8         14         59         77         106         10           9/16         20.3         21.8         15         59         77         115         10           19/32         21.5         21.8         16         59         77         123         10           5/8         22.8         22         17         59         77         141         10           21/32         24         23         18         59         77         149         10           3/4         26.5         25         20         58         77         165         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           3	5/16	13.2	21	9	59	77	76	10
1/2         19         21.8         14         59         77         106         10           9/16         20.3         21.8         15         59         77         115         10           19/32         21.5         21.8         16         59         77         123         10           5/8         22.8         22         17         59         77         141         10           21/32         24         23         18         59         77         149         10           3/4         26.5         25         20         58         77         165         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         249         10           31/32         34         31         27         57         77         249         10           31/32         34         31         27         57         77         279         10           1 </th <th>3/8</th> <th>14.6</th> <th>21</th> <th>10</th> <th>59</th> <th>77</th> <th>82</th> <th>10</th>	3/8	14.6	21	10	59	77	82	10
9/16         20.3         21.8         15         59         77         115         10           19/32         21.5         21.8         16         59         77         123         10           5/8         22.8         22         17         59         77         141         10           21/32         24         23         18         59         77         139         10           11/16         25         24         19         59         77         149         10           3/4         26.5         25         20         58         77         183         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1	7/16	16.5	21	12	59	77	86	10
19/32         21.5         21.8         16         59         77         123         10           5/8         22.8         22         17         59         77         141         10           21/32         24         23         18         59         77         139         10           11/16         25         24         19         59         77         149         10           3/4         26.5         25         20         58         77         165         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         .1/16         36.5         33         28         56         77         303         10	1/2	19	21.8	14	59	77	106	10
5/8         22.8         22         17         59         77         141         10           21/32         24         23         18         59         77         139         10           11/16         25         24         19         59         77         149         10           3/4         26.5         25         20         58         77         165         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         342         10 <t< th=""><th>9/16</th><th>20.3</th><th>21.8</th><th>15</th><th>59</th><th>77</th><th>115</th><th>10</th></t<>	9/16	20.3	21.8	15	59	77	115	10
21/32         24         23         18         59         77         139         10           11/16         25         24         19         59         77         149         10           3/4         26.5         25         20         58         77         165         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 3/16         40         36         34         28         56         77         333         10 <tr< th=""><th>19/32</th><th>21.5</th><th>21.8</th><th>16</th><th>59</th><th>77</th><th>123</th><th>10</th></tr<>	19/32	21.5	21.8	16	59	77	123	10
11/16         25         24         19         59         77         149         10           3/4         26.5         25         20         58         77         165         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         279         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1.	5/8	22.8	22	17	59	77	141	10
3/4         26.5         25         20         58         77         165         10           25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10	21/32	24	23	18	59	77	139	10
25/32         27.8         26         21         58         77         183         10           13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/18         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1. 5/16         44.2         39         35         54         77         420         5	11/16	25	24	19	59	77	149	10
13/16         29         27         23         58         77         190         10           7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1. 5/16         44.2         39         35         54         77         420         5	3/4	26.5	25	20	58	77	165	10
7/8         30         28         27         57         77         200         10           15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1. 5/16         44.2         39         35         54         77         420         5	25/32	27.8	26	21	58	77	183	10
15/16         32.8         30         27         57         77         249         10           31/32         34         31         27         57         77         270         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1. 5/16         44.2         39         35         54         77         420         5	13/16	29	27	23	58	77	190	10
31/32         34         31         27         57         77         270         10           1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1. 5/16         44.2         39         35         54         77         420         5	7/8	30	28	27	57	77	200	10
1         35         32         27         56         77         279         10           1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1. 5/16         44.2         39         35         54         77         420         5	15/16	32.8	30	27	57	77	249	10
1. 1/16         36.5         33         28         56         77         303         10           1. 1/8         37.8         34         28         56         77         331         10           1. 3/16         40         36         34         55         77         342         10           1. 1/4         42.8         38         34         55         77         405         10           1. 5/16         44.2         39         35         54         77         420         5	31/32	34	31	27	57	77	270	10
1. 1/8     37.8     34     28     56     77     331     10       1. 3/16     40     36     34     55     77     342     10       1. 1/4     42.8     38     34     55     77     405     10       1. 5/16     44.2     39     35     54     77     420     5	1	35	32	27	56	77	279	10
1. 3/16     40     36     34     55     77     342     10       1. 1/4     42.8     38     34     55     77     405     10       1. 5/16     44.2     39     35     54     77     420     5	1. 1/16	36.5	33	28	56	77	303	10
1. 1/4     42.8     38     34     55     77     405     10       1. 5/16     44.2     39     35     54     77     420     5	1. 1/8	37.8	34	28	56	77	331	10
<b>1.</b> 5/16 44.2 39 35 54 77 420 5	1. 3/16	40	36	34	55	77	342	10
	1. 1/4	42.8	38	34	55	77	405	10
<b>1. 3/8</b> 46.2 40 35 54 77 422 5	1. 5/16	44.2	39	35	54	77	420	5
	1. 3/8	46.2	40	35	54	77	422	5
<b>1. 7/16</b> 47.2 41 35 53 77 484 5	1. 7/16	47.2	41	35	53	77	484	5
<b>1. 1/2</b> 49 44 38 53 77 523 5	1. 1/2	49	44	38	53	77	523	5
<b>1.13/16</b> 59 48 38 51 77 791 5	1.13/16	59	48	38	51	77	791	5





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail ШШ



RS4300M/12



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail ШШ







Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



Hand Steckschlüssel

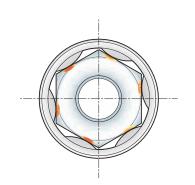
Douilles à main

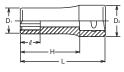
#### 4310M 🔾



Surface Drive Deep Sockets Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive







4310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
8	13.2	21	9	59	77	79	10
9	13.8	21	10	59	77	82	10
10	15.3	21	11	59	77	82	10
11	16.5	21	12	59	77	86	10
12	17.8	21	13	59	77	92	10
13	19	21.8	14	59	77	106	10
14	20.3	21.8	15	59	77	115	10
15	21.5	21.8	16	59	77	123	10
16	22.8	22	17	59	77	141	10
17	24	23	18	59	77	139	10
18	25	24	19	59	77	149	10
19	26.5	25	20	58	77	165	10
20	27.8	26	21	58	77	183	10
21	29	27	23	58	77	190	10
22	30	28	27	57	77	200	10
23	31.5	29	27	57	77	233	10
24	32.8	30	27	57	77	249	10
25	34	31	27	57	77	270	10
26	35	32	27	56	77	279	10
27	36.5	33	28	56	77	303	10
28	37.8	34	28	56	77	334	10
29	39	35	28	55	77	357	10
30	40	36	34	55	77	342	10
31	41.5	37	34	55	77	384	10
32	42.8	38	34	55	77	405	10
34	45.2	40	35	54	77	442	5



RS4310M/10 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



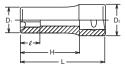
RS4310M/10	10 Pieces Set/Rail 300mm	₫Д (g)
10, 11, 12,	13, 14, 15, 17, 19, 21, 22	1,415

#### 4325



TORX® Deep Sockets TORX® Steckschlüssel, lang Douilles longues TORX®





4325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
E 8	10.7	21	7	59	77	68	10
E10	13.2	21	8.2	59	77	80	10
E11	13.8	21	8.7	59	77	84	10
E12	14.6	21	9.3	59	77	99	10
E14	16.5	21	10.6	59	77	103	10
E16	19	21.8	11.8	59	77	107	10
E18	20.3	21.8	13	59	77	118	10
E20	22.8	22	14.4	59	77	141	10
E24	26.6	25	17	59	77	215	10

#### RS4325/7





Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

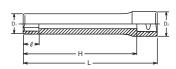


RS4325/7	7 Pieces Set/Rail 200mm	₫Д (g)
	E10, E12, E14, E16, E18, E20, E24	900

## 4300M (L120)





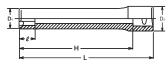


## 4325 (L140)



TORX® Extra Deep Sockets TORX® Steckschlüssel, extra lang Douilles extra longues TORX®





4325(L140)	D₁ (mm)	(mm)	(mm)	(mm)	(mm)	⊕ ⊕ (g)	(pcs.)
E 8	10.7	21	7	122	140	110	5
E10	13.2	21	8.2	122	140	140	5
E12	14.6	21	9.3	122	140	160	5
E14	16.5	21	10.6	122	140	180	5

21.8

13.2

15.3

17.8

20.3

22.8

#### H (mm) E 8(2B) 10.7 6.6 E10(2B) 13.2 7.4 E12(2B) 14.6

E14(2B) 16.5 For Cylinder head bolt 9.8

## 4325 (L140)-2B

TORX® Sockets **Nut Grip®**TORX Steckschlüssel mit 2-facher Kugelhalterung
Douilles Torx à deux billes de retenue





## 4117M-125/-250





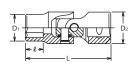
4117M-125 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫∄ (g)	(pce.)
13	18.7	24	13	59	125	213	1
14	20.2	24	14	59	125	227	1
17	24	24	17	59	125	274	1
19	26.9	24	19	59	125	279	1
21	28.5	24	21	59	125	291	1
22	30	24	22	59	125	323	1
24	32	24	24	59	125	361	1
27	36.5	24	27	59	125	439	1
30	40	24	30	59	125	461	1
32	42	24	32	59	125	498	1

4117M-250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pce.)
13	18.7	24	13	59	250	412	1
14	20.2	24	14	59	250	423	1
17	24	24	17	59	250	469	1
19	26.9	24	19	59	250	484	1
21	28.5	24	21	59	250	496	1
22	30	24	22	59	250	516	1
24	32	24	24	59	250	560	1
27	36.5	24	27	59	250	641	1
30	40	24	30	59	250	663	1
32	42	24	32	59	250	698	1



4440M / 4440A 6-point Universal Sockets 6-kant Gelenk-Einsätze Douilles articulées, 6-pans





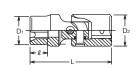
4440M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
9	14	25	8.3	63	150	10
10	15.3	25	8.8	63	155	10
11	16.5	25	10	65	158	10
12	17.8	25	10.5	65	151	10
13	19	25	11.4	66	152	10
14	20.3	25	11.4	66	151	10
15	21.5	25	13	68	149	10
16	22.8	25	13	68	150	10
17	24	25	14	69	150	10
18	25.3	25	14	69	150	10
19	26.5	25	15	71	170	10
20	27.8	25	15	71	173	5
21	29	25	16	72	176	5
22	30.3	25	16	72	185	5

4440A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
3/8	14.8	25	8.8	63	155	10
7/16	16.5	25	10	65	158	10
1/2	19	25	11.4	66	152	10
9/16	20.3	25	11.4	66	151	10
5/8	22.8	25	13	68	150	10
11/16	24.6	25	14	69	153	10
3/4	26.5	25	15	71	170	10
7/8	30.3	25	16	72	185	5



4440T OT TORX® Universal Sockets TORX® Gelenk-Einsätze Douilles articulées, TORX®





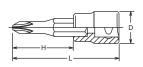
4440T (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
E10	13.2	25	8.2	62	145	10
E12	15	25	9.3	63	147	10
E14	16.3	25	10.6	65	148	10
E16	18.8	25	11.8	65	150	10
E18	20.4	25	13	67	153	10

4000-60 (PH) +



Phillips Bit Sockets Steckschlüssel für Kreuzschlitzschrauben, Phillips Douilles tournevis pour vis à empreinte Phillips





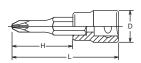
4000 (PH)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
2	22	23.5	60	65	10
3	22	23.5	60	65	10
4	22	23.5	60	67	10

4000-60 (PZ) 🛞



PZ Bit Sockets Steckschlüssel für Kreuzschlitzschrauben,PZ Douilles tournevis pour vis à empreinte PZ





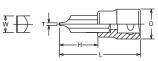
4000-60 (PZ)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
PZ2	22	23.5	60	65	10
PZ3	22	23.5	60	65	10

4005-60



Bit Sockets for Slotted Heads Steckschlüssel für Schlitzschrauben Douilles tournevis pour vis à fente





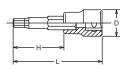
4005	T×W (mm)	D (mm)	H (mm)	L (mm)	₫ሽ (g)	(pcs.)
8	1.2× 8	22	23.5	60	65	10
10	1.6×10	22	23.5	60	75	10
12	2.0×12	23	23.5	60	111	10
14	2.5×14	24	23.5	60	133	10
16	2.5×16	24	23.5	60	133	10

4010M-50/-75/-100/-160



Inhex Bit Sockets Steckschlüssel für Innensechskant-Schra Douilles tournevis pour vis 6-pans creux







4010M-50 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
4	22	13.5	50	61	10
5	22	13.5	50	62	10
6	22	13.5	50	64	10
7	22	13.5	50	65	10
8	22	13.5	50	66	10
10	22	13.5	50	75	10
12	23	13.5	50	105	10
13	24	13.5	50	120	10
14	24	13.5	50	120	10
16	25	15	50	150	10
17	25	15	50	150	10
18	27	15	50	200	5
19	27	15	50	200	5

4010M-100 (mm)	D (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
4	22	63.5	100	77	10
5	22	63.5	100	78	10
6	22	63.5	100	80	10
7	22	63.5	100	82	10
8	22	63.5	100	84	10
10	22	63.5	100	109	10
12	23	63.5	100	155	10
13	24	63.5	100	180	5
14	24	63.5	100	180	5
16	25	60	100	250	5
17	25	60	100	250	5
18	27	58	100	300	5
19	27	58	100	300	5



RS4010M/10-L50	10 Pieces Set/Rail 300mm	₫∄ (g)
4, 5, 6, 7, 8,	10, 12, 14, 17, 19	968
RS4010M/10-L75	10 Pieces Set/Rail 300mm	Ø∄ (g)
4, 5, 6, 7, 8,	10, 12, 14, 17, 19	1,207
RS4010A/10-L60	10 Pieces Set/Rail 300mm	Д¯Д (g)
New 3/16, 7/32, 1/4, 5/16,	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	1,080

4010M-75 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
4	22	38.5	75	69	10
5	22	38.5	75	70	10
6	22	38.5	75	72	10
7	22	38.5	75	73	10
8	22	38.5	75	74	10
10	22	38.5	75	92	10
12	23	38.5	75	130	10
13	24	38.5	75	150	10
14	24	38.5	75	150	10
16	25	35	75	180	10
17	25	35	75	180	10
18	27	33	75	230	5
19	27	33	75	230	5

4010M-160 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
4	22	123.5	160	103	10
5	22	123.5	160	104	10
6	22	123.5	160	106	10
7	22	123.5	160	108	10
8	22	123.5	160	110	10
10	22	123.5	160	126	10
12	23	123.5	160	180	5
14	24	123.5	160	260	5
17	25	120	160	360	5
19	27	118	160	415	5

	4010A-60 (inch)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
New	5/32	22	23.5	60	57	10
New	3/16	22	23.5	60	57	10
New	7/32	22	23.5	60	59	10
New	1/4	22	23.5	60	63	10
New	9/32	22	23.5	60	65	10
New	5/16	22	23.5	60	67	10
New	11/32	22	23.5	60	75	10
New	3/8	22	23.5	60	76	10
New	7/16	23	23.5	60	101	10
New	1/2	24	23.5	60	124	10
New	9/16	25	20	60	127	10
New	5/8	25	20	60	174	10
New	3/4	27	18	60	220	5

RS4010M/10-L50 RS4010M/10-L75 RS4010A/10-L60







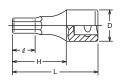


## 4012M-43/-60/-75/-100 Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux











4012M-43 (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	₫'∆ (g)	(pcs.)
4	21.1	11.5	23	43	40	10
5	21.1	11.5	23	43	46	10
6	21.1	11.5	23	43	42	10
7	21.1	11.5	23	43	46	10
8	21.1	11.5	23	43	49	10
9	21.1	11.5	23	43	63	10
10	23	11.5	23	43	63	10
11	25	11.5	23	43	74	10
12	25	11.5	23	43	81	10
13	25	11.5	23	43	85	10
14	25	11.5	23	43	88	10
15	26	11.5	23	43	91	10
16	26	11.5	23	43	100	10
17	26	11.5	23	43	101	10
18	26	11.5	23	43	106	10
19	26	11.5	23	43	110	10
20	26	11.5	23	43	130	10
21	26	11.5	23	43	140	10
22	26	11.5	23	43	145	10
23	28	11.5	23	43	167	10
24	28	11.5	23	43	170	10
27	32	11.5	23	43	226	10

4         21.1         15.5         53         75         52         10           5         21.1         15.5         53         75         58         10           6         21.1         15.5         53         75         62         10           7         21.1         15.5         53         75         70         10           8         21.1         15.5         53         75         74         10           9         21.1         15.5         53         75         88         10           10         23         15.5         53         75         94         10           11         25         15.5         53         75         119         10           12         25         15.5         53         75         122         10           13         25         15.5         53         75         148         10           14         25         15.5         53         75         148         10           15         26         15.5         53         75         171         10           16         26         15.5         53 <t< th=""><th>4012M-75 (mm)</th><th>D (mm)</th><th>ℓ (mm)</th><th>H (mm)</th><th>L (mm)</th><th>₫Д (g)</th><th>(pcs.)</th></t<>	4012M-75 (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
6         21.1         15.5         53         75         62         10           7         21.1         15.5         53         75         70         10           8         21.1         15.5         53         75         74         10           9         21.1         15.5         53         75         88         10           10         23         15.5         53         75         94         10           11         25         15.5         53         75         119         10           12         25         15.5         53         75         122         10           13         25         15.5         53         75         137         10           14         25         15.5         53         75         148         10           15         26         15.5         53         75         151         10           16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	4	21.1	15.5	53	75	52	10
7         21.1         15.5         53         75         70         10           8         21.1         15.5         53         75         74         10           9         21.1         15.5         53         75         88         10           10         23         15.5         53         75         94         10           11         25         15.5         53         75         119         10           12         25         15.5         53         75         122         10           13         25         15.5         53         75         137         10           14         25         15.5         53         75         148         10           15         26         15.5         53         75         151         10           16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	5	21.1	15.5	53	75	58	10
8     21.1     15.5     53     75     74     10       9     21.1     15.5     53     75     88     10       10     23     15.5     53     75     94     10       11     25     15.5     53     75     119     10       12     25     15.5     53     75     122     10       13     25     15.5     53     75     137     10       14     25     15.5     53     75     148     10       15     26     15.5     53     75     151     10       16     26     15.5     53     75     171     10       17     26     15.5     53     75     184     10	6	21.1	15.5	53	75	62	10
9         21.1         15.5         53         75         88         10           10         23         15.5         53         75         94         10           11         25         15.5         53         75         119         10           12         25         15.5         53         75         122         10           13         25         15.5         53         75         148         10           14         25         15.5         53         75         148         10           15         26         15.5         53         75         171         10           16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	7	21.1	15.5	53	75	70	10
10         23         15.5         53         75         94         10           11         25         15.5         53         75         119         10           12         25         15.5         53         75         122         10           13         25         15.5         53         75         137         10           14         25         15.5         53         75         148         10           15         26         15.5         53         75         151         10           16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	8	21.1	15.5	53	75	74	10
11         25         15.5         53         75         119         10           12         25         15.5         53         75         122         10           13         25         15.5         53         75         137         10           14         25         15.5         53         75         148         10           15         26         15.5         53         75         151         10           16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	9	21.1	15.5	53	75	88	10
12     25     15.5     53     75     122     10       13     25     15.5     53     75     137     10       14     25     15.5     53     75     148     10       15     26     15.5     53     75     151     10       16     26     15.5     53     75     171     10       17     26     15.5     53     75     184     10	10	23	15.5	53	75	94	10
13     25     15.5     53     75     137     10       14     25     15.5     53     75     148     10       15     26     15.5     53     75     151     10       16     26     15.5     53     75     171     10       17     26     15.5     53     75     184     10	11	25	15.5	53	75	119	10
14         25         15.5         53         75         148         10           15         26         15.5         53         75         151         10           16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	12	25	15.5	53	75	122	10
15         26         15.5         53         75         151         10           16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	13	25	15.5	53	75	137	10
16         26         15.5         53         75         171         10           17         26         15.5         53         75         184         10	14	25	15.5	53	75	148	10
<b>17</b> 26 15.5 53 75 184 10	15	26	15.5	53	75	151	10
	16	26	15.5	53	75	171	10
	17	26	15.5	53	75	184	10
<b>18</b> 26 15.5 53 75 196 10	18	26	15.5	53	75	196	10
<b>19</b> 26 15.5 53 75 212 10	19	26	15.5	53	75	212	10

4012M-60 (mm)	D (mm)	ل (mm)	H (mm)	L (mm)	₫ሽ (g)	(pcs.)
4	21.1	15.5	38	60	49	10
5	21.1	15.5	38	60	55	10
6	21.1	15.5	38	60	56	10
7	21.1	15.5	38	60	60	10
8	21.1	15.5	38	60	64	10
9	21.1	15.5	38	60	78	10
10	23	15.5	38	60	78	10
11	25	15.5	38	60	100	10
12	25	15.5	38	60	107	10
13	25	15.5	38	60	111	10
14	25	15.5	38	60	122	10
15	26	15.5	38	60	125	10
16	26	15.5	38	60	134	10
17	26	15.5	38	60	141	10
18	26	15.5	38	60	153	10
19	26	15.5	38	60	159	10
21	26	15.5	38	60	197	10
22	26	22.5	38	60	205	10
23	28	22.5	38	60	242	10
24	28	22.5	38	60	245	10

4012M-100 (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
4	24	15.5	78	100	75	10
5	24	15.5	78	100	81	10
6	24	15.5	78	100	85	10
7	24	15.5	78	100	93	10
8	24	15.5	78	100	97	10
9	24	15.5	78	100	111	10
10	24	15.5	78	100	117	10
11	24	15.5	78	100	142	10
12	24	15.5	78	100	143	10
13	24	15.5	78	100	158	10
14	24	15.5	78	100	169	10
15	24	15.5	78	100	172	10
16	24	15.5	78	100	192	5
17	24	15.5	78	100	215	5
18	24	15.5	78	100	227	5
19	24	15.5	78	100	243	5





RS4012M/10-L60 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS4012M/10-L60	10 Pieces set/Rail 300mm	₫Д (g)
4, 5, 6, 7, 8, 1	0, 12, 14, 17, 19	910



4012M/A are for hand use only. 4012M/A are for name use only.

Do not use with a power or impact wrench.

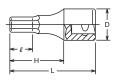
Nicht auf Maschinenschraubern verwenden. À ne pas utiliser sur des machines

## 4012A-43/-60/-75/-100



Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux







4012A-43 (inch)	D (mm)	ل (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
5/32	21.1	11.5	23	43	40	10
3/16	21.1	11.5	23	43	46	10
7/32	21.1	11.5	23	43	42	10
1/4	21.1	11.5	23	43	43	10
9/32	21.1	11.5	23	43	46	10
5/16	21.1	11.5	23	43	49	10
11/32	21.1	11.5	23	43	63	10
3/8	23	11.5	23	43	59	10
7/16	25	11.5	23	43	74	10
1/2	25	11.5	23	43	85	10
9/16	25	11.5	23	43	88	10
5/8	26	11.5	23	43	100	10
3/4	26	11.5	23	43	110	10

4012A-75 (inch)	D (mm)	ل (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)
5/32	21.1	15.5	53	75	52	10
3/16	21.1	15.5	53	75	58	10
7/32	21.1	15.5	53	75	62	10
1/4	21.1	15.5	53	75	65	10
9/32	21.1	15.5	53	75	70	10
5/16	21.1	15.5	53	75	74	10
11/32	21.1	15.5	53	75	88	10
3/8	23	15.5	53	75	86	10
7/16	25	15.5	53	75	119	10
1/2	25	15.5	53	75	137	10
9/16	25	15.5	53	75	148	10
5/8	26	15.5	53	75	171	10
3/4	26	15.5	53	75	212	10

4012A-60 (inch)	D (mm)	ل (mm)	H (mm)	L (mm)	Д°Д (g)	(pcs.)
5/32	21.1	15.5	38	60	49	10
3/16	21.1	15.5	38	60	55	10
7/32	21.1	15.5	38	60	56	10
1/4	21.1	15.5	38	60	57	10
9/32	21.1	15.5	38	60	60	10
5/16	21.1	15.5	38	60	64	10
11/32	21.1	15.5	38	60	78	10
3/8	23	15.5	38	60	74	10
7/16	25	15.5	38	60	100	10
1/2	25	15.5	38	60	111	10
9/16	25	15.5	38	60	122	10
5/8	26	15.5	38	60	134	10
3/4	26	15.5	38	60	159	10

4012A-100 (inch)	D (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
5/32	24	15.5	78	100	75	10
3/16	24	15.5	78	100	81	10
7/32	24	15.5	78	100	85	10
1/4	24	15.5	78	100	88	10
9/32	24	15.5	78	100	93	10
5/16	24	15.5	78	100	97	10
11/32	24	15.5	78	100	111	10
3/8	24	15.5	78	100	109	10
7/16	24	15.5	78	100	142	10
1/2	24	15.5	78	100	158	10
9/16	24	15.5	78	100	169	10
5/8	24	15.5	78	100	192	5
3/4	24	15.5	78	100	243	5





RS4012A/10-L60 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

RS4012A/10-L60 10 Pieces set/Rail 300mm (g) 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4





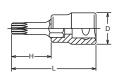


## 4020-60/-100/-120/-140



XZN Bit Sockets Steckschlüssel für XZN Schrauben Douilles tournevis pour empreinte XZN







4020-60 (XZN)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
M 5	22	23.5	60	60	10
M 6	22	23.5	60	61	10
M 8	22	23.5	60	63	10
M10	23	23.5	60	93	10
M12	23	23.5	60	97	10
M14	24	23.5	60	105	10
M16	25	20	60	165	10
M18	27	20	60	215	5

4020-120 (XZN)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
M 5	22	83.5	120	86	10
M 6	22	83.5	120	87	10
M 8	22	83.5	120	89	10
M10	23	83.5	120	152	10
M12	23	83.5	120	156	10
M14	24	83.5	120	164	5

4020-100 (XZN)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
M 5	22	63.5	100	77	10
M 6	22	63.5	100	78	10
M 8	22	63.5	100	80	10
M10	23	63.5	100	132	10
M12	23	63.5	100	136	10
M14	24	63.5	100	144	5
M16	25	60	100	250	5
M18	27	60	100	300	5

4020-140 (XZN)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
M 5	22	103.5	140	95	10
M 6	22	103.5	140	96	10
М 8	22	103.5	140	98	10
M10	23	103.5	140	172	5
M12	23	103.5	140	176	5
M14	24	103.5	140	184	5



S <sub>1</sub> (ref. mm) 3.6 4.8 6.1 7.3 9.7 11.5 13.3 15.7 1											
	XZN		M4	M5	M6	M8	M10	M12	M14	M16	M18
So (rof mm) 2.1 (1.1 5.1 6.1 8.1 0.7 11.2 12.2 1	S <sub>1</sub>	(ref. mm)	3.6	4.8	6.1	7.3	9.7	11.5	13.3	15.7	16.9
32 (let. min) 3.1 4.1 3.1 6.1 6.1 9.7 11.2 13.2 1	S <sub>2</sub>	(ref. mm)	3.1	4.1	5.1	6.1	8.1	9.7	11.2	13.2	14.2

## RS4020/6-L60 RS4020/6-L100



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



RS4020/6-L60	6 Pieces Set/Rail 150mm	₫∄ (g)							
M5, M6, M8,	M5, M6, M8, M10, M12, M14								
RS4020/6-L100	6 Pieces Set/Rail 150mm	₫₫ (g)							
M5, M6, M8, M10, M12, M14									

#### 4025-60 (T) ⊕ ∉ (g) T20 22 23.5 60 59 10 T25 22 23.5 60 10 60 22 T27 23.5 60 60 10 T30 22 23.5 60 60 10 22 T40 23.5 62 60 10 T45 22 23.5 60 64 10 74 T50 22 23.5 60 10 T55 23 96 23.5 60 10 24 122 T60 23.5 60 10

60

60

135

168

10

10

23.5

20

4025-100 (T)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
T20	22	73.5	100	76	10
T25	22	73.5	100	76	10
T27	22	73.5	100	77	10
T30	22	73.5	100	77	10
T40	22	73.5	100	78	10
T45	22	73.5	100	80	10
T50	22	73.5	100	98	10
T55	23	73.5	100	132	10
T60	24	73.5	100	170	5
T70	24	73.5	100	175	5

RS4025/9-L60	9 Pieces Set/Rail 250mm	Д́Д (g)				
T20, T25, T27, T30, T40, T45, T50, T55, T60						

## 4025-60/-100/-140 (T)





4025-140 (T)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
T20	22	103.5	140	94	10
T25	22	103.5	140	95	10
T27	22	103.5	140	95	10
T30	22	103.5	140	95	10
T40	22	103.5	140	97	10
T45	22	103.5	140	99	10
T50	22	103.5	140	129	10
T55	23	103.5	140	175	5
T60	24	103.5	140	229	5
T70	24	103.5	140	245	5
T80	24	100	140	320	5

RS4025/9-L60 🗼 📖



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail





T70

T80

24

24

	Т	T8	T9	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	T60	T70	T80	T90	T100
S <sub>1</sub>	(ref. mm)	2.3	2.5	2.7	3.3	3.9	4.5	5.0	5.6	6.7	7.9	8.9	11.3	13.3	15.6	17.6	20.0	22.2
S <sub>2</sub>	(ref. mm)	1.7	1.8	2.0	2.3	2.8	3.2	3.6	4.0	4.8	5.6	6.2	8.0	9.5	11.1	12.7	14.2	15.8

4025-60 (IP)	D (mm)	H (mm)	L (mm)	(g)	(pcs.)
20IP	22	23.5	60	60	10
25IP	22	23.5	60	60	10
27IP	22	23.5	60	60	10
30IP	22	23.5	60	60	10
40IP	22	23.5	60	60	10
45IP	22	23.5	60	64	10
50IP	22	23.5	60	74	10
55IP	23	23.5	60	96	10
60IP	24	23.5	60	122	10
70IP	24	23.5	60	170	10

4025-100 (IP)	D (mm)	H (mm)	L (mm)	<b>∆</b> ™ (g)	(pcs.)
40IP	22	63.5	100	79	10
45IP	22	63.5	100	81	10
50IP	22	63.5	100	100	10
55IP	23	63.5	100	133	10
60IP	24	63.5	100	172	5
70IP	25	63.5	100	241	5

RS4025/9-IP	9 Pieces set/Rail 250mm	₫ <sup>™</sup> Д (g)
20IP, 25IP, 27IP, 30IP, 40	0IP, 45IP, 50IP, 55IP, 60IP	700

## 4025-60/-100 (IP)



TORX PLUS® Bit Sockets TORX PLUS® Bit-Steckschlüssel Douilles tournevis,TORX PLUS®





## RS4025/9-IP



Socket Set on Rail Steckschlüsselsatz auf Schiene ШШ



#### TORX Plus®



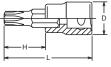
C.							25IP	27IP	30IP	40IP	45IP	50IP	55IP	60IP	70IP
	(ref. mm)	2.3	2.5	2.7	3.3	3.9	4.5	5.0	5.6	6.7	7.9	8.9	11.3	13.3	15.6
S <sub>2</sub>	(ref. mm)	1.7	1.8	2.0	2.3	2.8	3.2	3.6	4.0	4.8	5.6	6.2	8.0	9.5	11.1
	S <sub>2</sub>	S <sub>2</sub> (ref. mm)	S <sub>2</sub> (ref. mm) 1.7	S <sub>2</sub> (ref. mm) 1.7 1.8	S <sub>2</sub> (ref. mm) 1.7 1.8 2.0	S <sub>2</sub> (ref. mm) 1.7 1.8 2.0 2.3	S <sub>2</sub> (ref. mm) 1.7 1.8 2.0 2.3 2.8	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2         3.6	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2         3.6         4.0	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2         3.6         4.0         4.8	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2         3.6         4.0         4.8         5.6	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2         3.6         4.0         4.8         5.6         6.2	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2         3.6         4.0         4.8         5.6         6.2         8.0	S2         (ref. mm)         1.7         1.8         2.0         2.3         2.8         3.2         3.6         4.0         4.8         5.6         6.2         8.0         9.5

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TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

4025-60-T35 🕏







4025-60	D	H	L	₫Д	(pcs.)
(T)	(mm)	(mm)	(mm)	(g)	
T35	22	23.5	60	96	10

For T35 Special screws

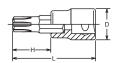
4027-60/-100/-140



Bit Sockets for Ribe Screws Steckschlüsselklingen für Ribe Schrauben Douilles tournevis pour écrous profil Ribe







4027-60	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
M 5	22	23.5	60	60	10
M 6	22	23.5	60	62	10
M 7	22	23.5	60	63	10
M 8	22	23.5	60	64	10
М 9	22	23.5	60	70	10
M10	22	23.5	60	74	10
M12	23	23.5	60	96	10
M13	24	23.5	60	116	10
M14	24	23.5	60	122	10
M16	24	25	60	135	10

4027-100	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
M 5	22	63.5	100	67	10
M 6	22	63.5	100	68	10
M 7	22	63.5	100	75	10
M 8	22	63.5	100	81	10
М 9	22	63.5	100	90	10
M10	22	63.5	100	101	10
M12	23	63.5	100	134	10
M13	24	63.5	100	155	5
M14	24	63.5	100	173	5
M16	24	60	100	241	5

4027-140	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
M 8	22	103.5	140	98	10
M10	22	103.5	140	127	10
M12	23	103.5	140	171	5
M14	24	103.5	140	226	5
M16	24	100	140	320	5

Ribe CV —													
	Ť	С	V	M5	M6	M7	M8	M9	M10	M12	M13	M14	M16
<b>1</b>	S <sub>1</sub>	W	(ref. mm)	1.2	1.3	1.4	1.8	2.0	2.3	2.6	3.1	3.2	3.6
		S <sub>1</sub>	(ref. mm)	5.0	6.0	7.0	8.0	9.0	10.0	12.0	13.0	14.0	16.0
S2	*	S <sub>2</sub>	(ref. mm)	3.8	4.5	5.0	6.0	7.1	7.4	9.0	11.0	10.4	11.9
W													

RS4027/7-L60 (\*)



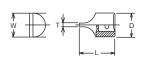
Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail





4101

Sockets for Slotted Heads Steckschlüssel für Schlitzschrauben Douilles tournevis pour vis à fente





D<sub>1</sub> (mm) (g) 4137 13 22 38 53 10

For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts

T×W (mm) 2.7×18.6

3.7×24

3.7×30

1

2

3

22

24

30

D<sub>2</sub> (mm)

22

40

40

40

59

79

128





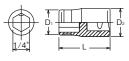
10

10

10

4137

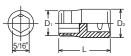






4138



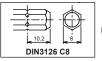




For DIN3126 C8 Bits Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts

16

4138



62

(mm)

38



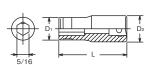
10

	D <sub>1</sub>	D <sub>2</sub>	L	<u> </u>	
	(mm)	(mm)	(mm)	(g)	(pcs.)
4141	16	22	52	70	10

4141



Bit Holder, extra deep for 131P-80, 131S-80, 131T-80 Klingenhalter, extra tief für 131P-80, 131S-80, 131T-80 Porte embout, ouverture longue pour 131P-80, 131S-80, 131T-80







#### 37498-1/2

Reversible Ratchet Short Knarre, verstellbar Cliquet, réversible









\* Renewal Kits → 3749SRK-1/2 → P287

## 3749SB-1/2

Reversible Ratchet short with quick release button Knarre, verstellbar mit Verriegelungsknopf Cliquet, réversible avec bouton de débrayage











\* Renewal Kits → 3749SBRK-1/2

	D (mm)	T (mm)	H (mm)	L (mm)	₫Z (g)	(pcs.)
3749S-1/2	34	29	14.4	110	200	5
3749SB-1/2	34	29	14 4	110	200	5



Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.



4752N

Reversible Ratchet Knarre, verstellbar Cliquet, réversible

Reversible Ratchet Knarre, verstellbar Cliquet, réversible











A pointer and L/R markings on the ratchet head Indicate the turning direction.

The reduced diameter of the head allows easier access in

Eine L/R Markierung auf dem Knarrenkopf zeigt die gerade eingestellte Drehrichtung an. Der geringe Kopfdurchmesser erleichtert das Arbeiten auch an schwer zugänglichen Stellen.

Un marquage L/R sur la tête de cliquet indique le sens de rotation.

Le diamètre de tête réduit et facilite le travail dans les endroits difficilement accessibles.



		D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
	4752J	35	38.8	24.5	250	470	1
New	4752N	35	38.8	24.5	250	480	1

## **GEAR TEETH**





4753series



4750series



4752series



4774series



## Hand Steckschlüssel Douilles à main Douilles à main







Renewal Kits → 4750RK











\* Renewal Kits → 4750RK →



4750J

4750N



Reversible Ratchet



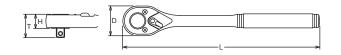




\* Renewal Kits - 4750RK



		D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
	4750J	38	35.9	21.3	250	508	1
	4750P	38	35.9	21.3	250	553	1
New	4750N	38	35.9	21.3	250	548	1





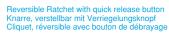






Renewal Kits → 4750BRK → P287

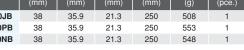


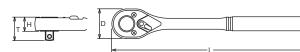


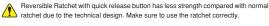


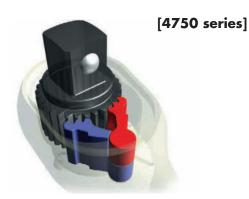


		D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
	4750JB	38	35.9	21.3	250	508	1
	4750PB	38	35.9	21.3	250	553	1
New	4750NB	38	35.9	21.3	250	548	1









Two dogs are set in the same axis and the three teeth hold the ratchet gear.

The enlarged contact area produces an about 10% higher torque value and the S.O.D.H system provides smooth and light movements.

Die scharnierartig eingelagerten Sperrklinken haben jetzt jeweils drei Zähne im Eingriff. Die dadurch vergrösserte Greiffläche erhöht das maximale Drehmoment um ca. 10%. Auch diese Knarre besticht durch ihren leichten und geschmeidigen Lauf.

Les deux rochets étant placés sur le même axe, les trois dents de l'engrenage sont engagées en permanence. Ce système assure une augmentation de 10% du couple maximum admissible. Ce cliquet se caractérise également par son fonctionnement souple et sans à-coup. Reversible Ratchet Knarre, verstellbar Cliquet, réversible



\* Renewal Kits - 4753RK - P287



\* Renewal Kits → 4753RK

4753N

4753P

4753J

Reversible Ratchet Knarre, verstellbar Cliquet, réversible

Reversible Ratchet Knarre, verstellbar Cliquet, réversible









\* Renewal Kits → 4753RK

**D4753J** 

Reversible Ratchet Knarre, verstellbar Cliquet, réversible

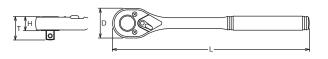








\* Renewal Kits - 4753RK



		(mm)	(mm)	(mm)	(mm)	(g)	(pce.)
	4753J	38	36.2	21.6	250	545	1
	4753P	38	36.2	21.6	250	570	1
New	4753N	38	36.2	21.6	250	595	1
	D4753J	38	36.2	21.6	250	510	1

### 4753JB 4753PB 4753NB

Reversible Ratchet with quick release button Knarre, verstellbar mit Verriegelungsknopf Cliquet, réversible avec bouton de débrayage











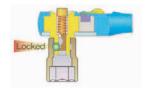
\* Renewal Kits → 4753BRK → P287



THE		L	
-----	--	---	--

		D (mm)	T (mm)	H (mm)	L (mm)	₫∄ (g)	(pce.)
	4753JB	38	36.2	21.6	250	545	1
	4753PB	38	36.2	21.6	250	570	1
New	4753NB	38	36.2	21.6	250	595	1

Reversible Ratchet with quick release button has less strength compared with normal 





#### Reversible Ratchet with Quick Release Button:

Sockets and accessories are safely locked. By pushing the button the sockets or extension bars are released from the ratchet.

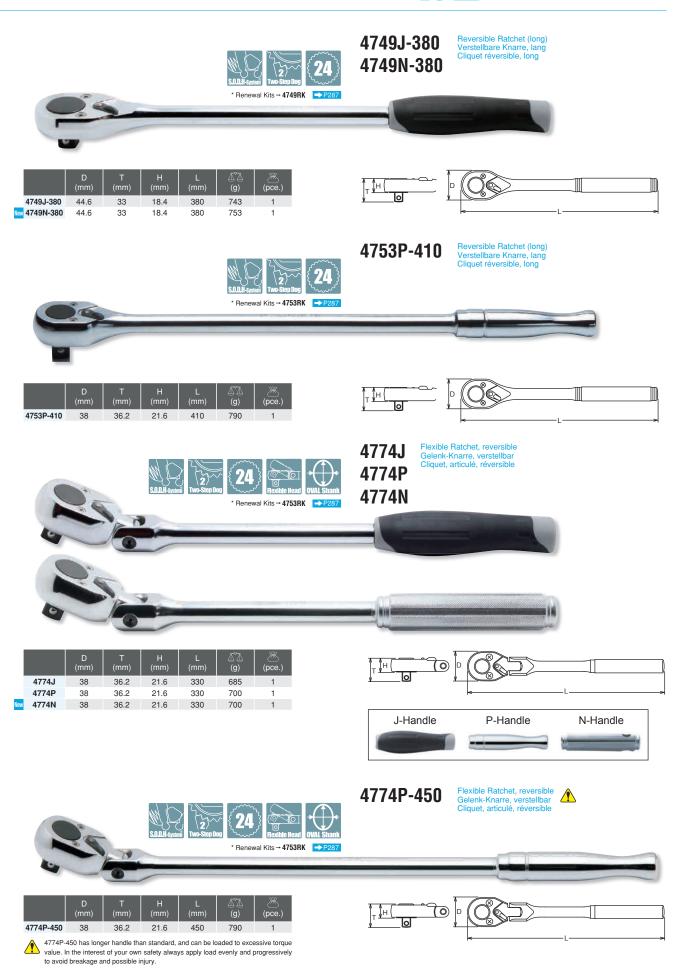
Umstellbare Knarre mit Verriegelungsknopf : Steckschlüssel und Zubehörteile werden sicher und fest gehalten. Bei Drücken des Knopfes lösen sich die Teile

#### Cliquet réversible à verrouillage :

Les douilles et accessoires ne peuvent plus tomber. Une pression du pouce sur le bouton suffit pour les libérer.







#### 4774JB 4774PB **4774NB**

Flexible Ratchet, reversible with quick release button Gelenk-Knarre, verstellbar mit Verriegelungsknopf Cliquet, articulé, réversible avec bouton de débrayage







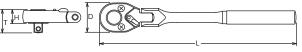




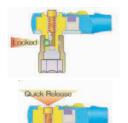


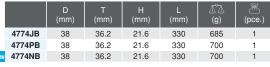












Reversible Ratchet with quick release button has less strength compared with normal Reversible Ratchet with quick release outcomes and ratchet due to the technical design. Make sure to use the ratchet correctly.

#### Reversible Ratchet with Quick Release Button :

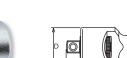
Sockets and accessories are safely locked. By pushing the button the sockets or extension bars are released from the ratchet.

#### Umstellbare Knarre mit Verriegelungsknopf :

Steckschlüssel und Zubehörteile werden sicher und fest gehalten. Bei Drücken des Knopfes lösen sich die Teile.

#### Cliquet réversible à verrouillage :

Les douilles et accessoires ne peuvent plus se libérer. Une pression du pouce sur le bouton





\* Renewal Kits → 4755RK → P288

	D (mm)	L (mm)	₫∄ (g)	© (pcs.)
4755	33.5	65	270	5

Ratchet Adaptor Aufsteckknarre Cliquet adaptable

4755









	D (mm)	L (mm)	∆̃∆ (g)	(pcs.)
4756	38	34.5	95	10

4768J-380/-450









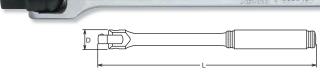
4768P-380/-450

Hinge Handles Gelenkgriffe Poignées articulées









	(mm)	(mm)	(g)	(pcs.)
4768J-380	28	380	600	1
4768J-450	28	450	690	1
4768P-380	28	380	665	2
4768P-450	28	450	748	2

4768-450 has longer handle than standard, and can be loaded to excessive

#### (g)

#### PK4760/5 5 Pieces Set/ὧື =1.050a PLASTIC TRAY 4760 Extension Bars 50, 75, 125, 150, 250

Rotation and general handling of extensions with oily hands is greatly improved with the **Koken** developed 6 point knurling. Also the **Koken** 6 point knurling stops the extensions from rolling around the work area.



Durch die von Koken entwickelte 6 fache Rändelung wird die Handhabung deutlich erleichtert. Außerdem wird das Herumrollen der Verlängerungen wirksam verhindert.

La manipulation des rallonges est grandement facilitée par le profil moleté développé par Kokon. Ce même profile empêche le roulement intempestif des rallonges sur le plan de travail.

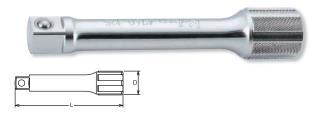
4763	D (mm)	L (mm)	(g)	(pcs.)
50	24	50	95	10
75	24	75	111	10
125	24	125	157	5
150	24	150	181	5
250	24	250	357	5
400	24	400	650	1



The Wobble-Fix Extension Bar has less strength than normal extension bar due to it's specific design with a reduced square drive. Make sure to use it correctly.

## 4760-50/-75/-100/-125/-150/-200/-250/ -300/-400/-500/-600/-900/-1000

Extension Bars Verlängerungen Rallonges



#### PK4760/5

Extension Bars in Plastic Box Verlängerungen in Kunststoff-Kassette Rallonges en boîte plastique

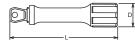


### 4763-50/-75/-125/-150/-250/-400



Wobble-Fix Extension Bars Winkel-Verlängerungen Rallonges angulaires

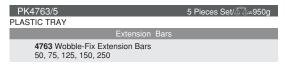


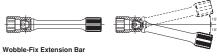


### PK4763/5

Wobble-Flx Extension Bars in Plastic Box Winkel Verlängerungen in Kunststoff-Kassette Rallonges angulaires en boîte plastique







Two way usage

a) In a fixed position, as a normal extension bar

b) In a half-fixed position, as a flexible extension bar providing a 15° angle operation

#### Winkel-Verlängerungen

Winkelverlängerungen lassen sich in zwel Einstellungen verwenden

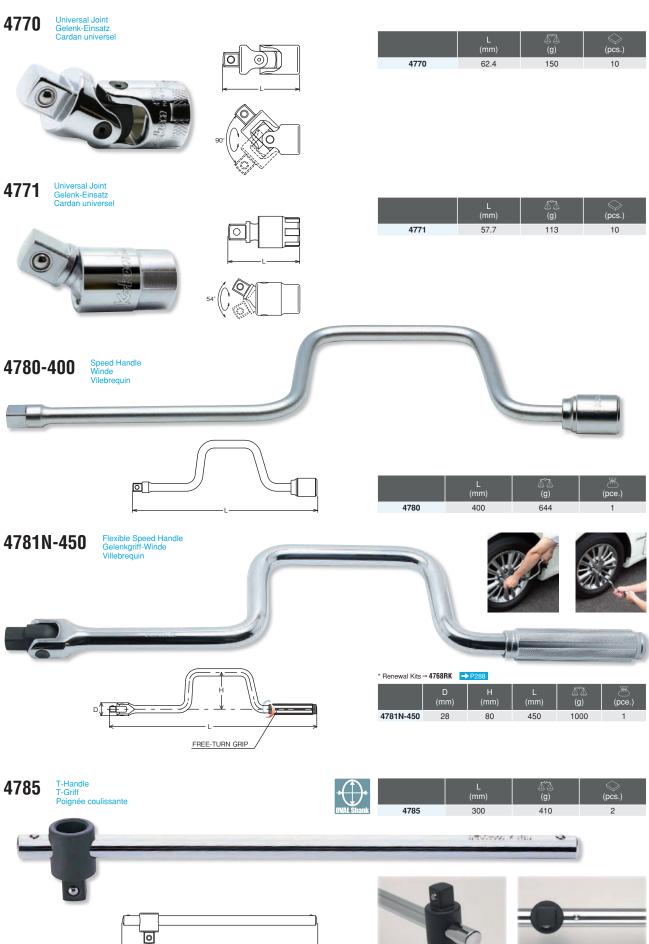
a) voll eingesteckt und starr,

b) halb eingesteckt, mit elnem Arbeitswinkel von 15°.

Deux utilisations possibles

a) comme rallonge normale, dans une position fixe

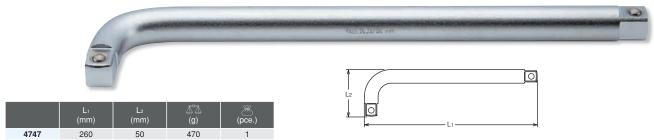
b) comme une rallonge angulaire avec une possibilité d'inclinaison jusqu'à 15°





4747

L-Handle L-Griff Poignées en L







	4433A	凹 (sq.)	凸 (sq.)	L (mm)	₫₫ (g)	(pcs.)
	35	1/2"	3/8"	35	50	10
New	75	1/2"	3/8"	75	120	10
	125	1/2"	3/8"	125	164	5
	250	1/2"	3/8"	250	275	5
	600	1/2"	3/8"	600	530	1

53

53

53

417

503

745

250

300

450

250

300

450

Items in this catalogue marked 1 can be loaded to torque values which may cause

breakage. In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.

Die mit 🛕 gekennzeichneten Artikel können bei Überbelastungen zu Bruch gehen. Aus Gründen Ihrer Sicherheit, sollten die betreffenden Werkzeuge nie ruckartig sondern nach und nach belastet werden, um Bruch und damit verbundene, mögliche Verletzungen zu

Il est possible d'appliquer aux articles marqués 🐧 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

	凹 (sq.)	凸 (sq.)	L (mm)	₫¼ (g)	(pcs.)
4466A	1/2"	3/4"	42	108	10

### 4433A-35/-75/-125/-250/-600

Adaptors Verbindungsstücke Réducteurs

Warranty 290Nm Garantie 290Nm Garantie 290Nm





4466A

Adaptor Verbindungsstück Réducteurs





4223M-01 4223M-06

Jeux de clés à douilles



4238AM

Socket Sets Steckschlüssel Sätze Jeux de clés à douille

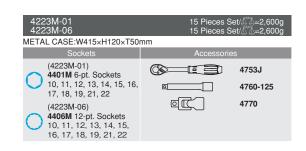


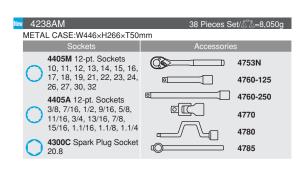
S4240M-01 S4240A-00 S4240M-06 Display Stands Ausstellungsständer Présentoirs



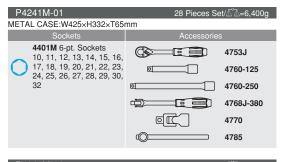
P4241M-01 P4241M-06

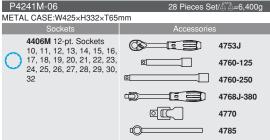




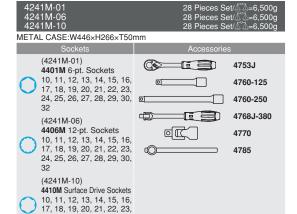


S4240M-01	4401M 117 Pi	eces Set/\$\tilde{\Pi}\$ =13,000g
S4240M-06	4406M 117 Pi	eces Set/🗓 🕽 = 13,000g
DISPLAY STAND:W510×I	H150×T230mm	
	Sockets	
10mm:9pcs	16mm:9pcs	24mm:6pcs
11mm:9pcs	17mm:8pcs	27mm:5pcs
12mm:9pcs	19mm:7pcs	30mm:5pcs
13mm:9pcs	21mm:7pcs	32mm:4pcs
14mm:9pcs	22mm:6pcs	
15mm:9pcs	23mm:6pcs	
S4240A-00	4400A 103 Pi	eces Set/\$\tilde{\Pi}\$=13,000g
S4240A-05	4405A 103 Pi	eces Set/🗓 🛴=13,000g
DISPLAY STAND:W510×I	H150×T230mm	
	Sockets	
3/8" :9pcs	11/16":8pcs	1" :5pcs
7/16":9pcs	3/4" :7pcs	1.1/16":5pcs
1/2" :9pcs	13/16":7pcs	1.1/8" :5pcs
9/16":9pcs	7/8" :6pcs	1.3/16":5pcs
5/8" :9pcs	15/16":6pcs	1.1/4" :4pcs

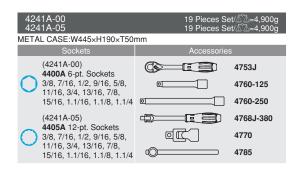


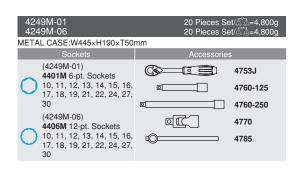


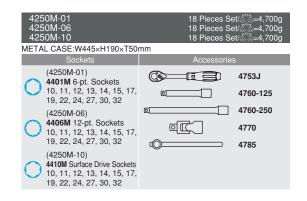




24, 25, 26, 27, 28, 29, 30,







4241M-01 4241M-06 4241M-10

Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



4241A-00 4241A-05

Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



4249M-01 4249M-06 Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



4250M-01 4250M-06 4250M-10



Hand Steckschlüssel

Douilles à main Douilles à main

4251M-01 4251M-06 4251M-10 4251A-00

4251A-05

Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



4252M-01 4252M-06 4252M-10 Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



4252M-01 4252M-06 4252M-10

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32

3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4

10, 11, 12, 13, 14, 15, 16, 17, 18,

19, 20, 21, 22

METAL CASE:W168×H60×T42mm

4251A-00 4251A-05

METAL CASE:W330xH68xT48mm

(4251M-01) 4401M 6-pt. Sockets

(4251M-06) 4406M 12-pt. Sockets (4251M-10)

4400A 6-pt. Sockets (4251A-05) 4405A 12-pt. Sockets

(4251A-00)

4410M Surface Drive Sockets

(4252M-01) 4401M 6-pt. Sockets

(4252M-06) 4406M 12-pt. Sockets

(4252M-10) **4410M** Surface Drive Sockets

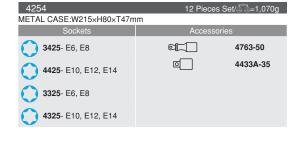
Socket Sets Steckschlüssel Sätze 4254

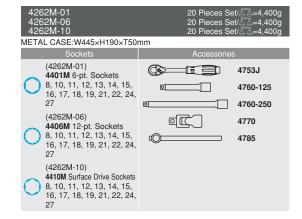


4262M-01 4262M-06

4262M-10







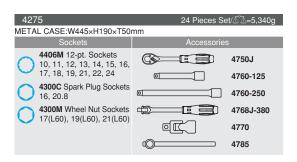






Socket Sets Steckschlüssel Sätze

Jeux de clés à douilles



4753J

4760-125

4760-250

4770

4785

4272AM-01 4272AM-06

METAL CASE:W445×H190×T50mm

**4401M** 6-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24

4400A 6-pt. Sockets

3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8,

**4406M** 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 4405A 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8,

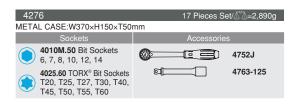
(4272AM-01)

15/16, 1

15/16, 1

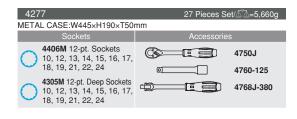
(4272AM-06)











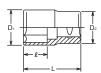




# Hand Steckschlüssel 3/4\* Douilles à main



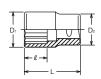




							<b>⊢</b> —L—
ı	6400M	D <sub>1</sub>	D <sub>2</sub>	l	L	ΔÃ	
ı	6405M	(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)
Н	(mm) 17	26	34	12.5	50	175	5
	18	27	34	13	50	173	5
	19	28.5	34	13.5	50	179	5
	20	29.5	34	14	50	185	5
	21	31	34	14.5	50	185	5
	22	32	34	15	50	187	5
	23	33.5	34	16	50	187	5
	24	34.5	34	17	50	200	5
	25	36	34	17.5	50	217	5
	26	37	34	18	50	222	5
	27	38.5	37	19	53	254	5
	28	39.5	38	19.5	53	298	5
	29	41	38	20	55	292	5
	30	42	38	21	55	301	5
	31	43.5	38	22	57	294	5
	32	44.5	40	23	57	351	5
	33	46	40	23.5	57	384	5
	34	47	40	24	57	397	5
	35	48.5	42	24.5	59	422	5
	36	49.5	42	25	59	438	5
	37	51	42	25.5	59	484	5
	38	52	45	26	59	523	5
	39	53.5	45	26.5	59	538	5
	40	54.5	45	27	62	550	5
	41	56	45	28	62	633	5
	42	57	47	28.5	62	652	2
	43	58.5	47	29	62	659	2
	44	59.5	47	29.5	62	657	2
	45	61	47	30	68	734	2
	46	62	47	31	68	791	2
	47	63.5	48	31.5	68	816	2
	48	64.5	45	32	68	800	2
	50	67	48	34	68	880	2
	52	69.5	53	33	72	925	2
	54	72	55	33	72	1040	2
	55	73.5	53	36	72	1006	2
	56	74.5	53	36	72	1092	2
	57	76	53	36	72	1169	2
	58	77	53	36	72	1149	2
	60	79.5	58	39	76	1402	2
	63	83.5	58	39	76	1494	2
	65	86	63	42	80	1608	2
	70	92	68	45	84	1785	2
	75	98.5	73	48	86	2186	1
	78	102.1	73	55	86	2425	1
١	80	104.5	78	52	90	2475	1
	85	111	78	52	90	2620	1





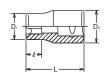


6400A 6405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
11/16	27	34	13	50	178	5
3/4	28.5	34	13.5	50	179	5
25/32	29.5	34	14	50	185	5
13/16	31	34	14.5	50	185	5
7/8	32	34	15	50	187	5
15/16	34.5	34	17	50	200	5
31/32	36	34	17.5	50	217	5
1	37	34	18	50	222	5
1. 1/16	38.5	37	19	53	254	5
1. 1/8	41	38	20	53	292	5
1. 3/16	42	38	21	55	301	5
1. 1/4	44.5	40	23	57	351	5
1. 5/16	46	40	23.5	57	384	5
1. 3/8	48.5	42	24.5	57	422	5
1. 7/16	51	42	25.5	59	484	5
1. 1/2	52	45	26	59	523	5
1. 9/16	54.5	45	27	59	550	5
1. 5/8	56	47	28	62	633	5
1.11/16	58.5	47	29	62	659	2
1. 3/4	59.5	47	29.5	62	657	2
1.13/16	62	47	31	68	791	2
1. 7/8	64.5	45	32	68	892	2
1.15/16	66	48	32.5	68	870	2
2	68.5	52	34.5	68	949	2
2. 1/16	71	54	33	72	983	2
2. 1/8	72	55	33	72	1040	2
2. 3/16	74.5	53	36	72	1092	2
2. 1/4	76	53	36	72	1169	2
2. 5/16	78.5	53	36	72	1344	2
2. 3/8	79.5	58	39	76	1402	2
2. 7/16	82	58	39	76	1420	2
2. 1/2	84.5	58	39	76	1497	2
2. 9/16	86	63	42	80	1608	2
2. 5/8	88.5	63	42	80	1709	2
2.11/16	89.5	63	42	80	1634	2
2. 3/4	92	68	45	84	1785	2
2.13/16	94.5	68	45	84	2018	2
2. 7/8	96	68	45	84	2062	2
2.15/16	98.5	73	48	86	2186	1
3	101	73	48	86	2309	1
3. 1/8	104.5	78	52	90	2475	1

6425 🔘







	6425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
New	E18	22.1	34	11.9	50	156	5
New	E20	24.6	34	13.3	50	166	5
New	E22	27.1	34	14.4	50	178	5
New	E24	28.6	34	16	50	185	5
New	E26	31.1	34	17.7	55	217	5
New	E28	32.1	34	24.1	60	237	5
New	E30	35	34	24.1	60	242	5
New	E32	36.1	34	24.1	60	247	5

12-point Deep Sockets 12-kant Steckschlüssel,lang Douilles longues, 12-pans

6305M / 6305A

6300A 6305A (inch)

3/4

25/32

13/16

28.5

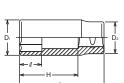
29.5

### 6300M / 6300A O



6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans







17         26         34         18         64         90         278         5           18         27         34         19         64         90         281         5           19         28.5         34         20         64         90         292         5           20         29.5         34         21         64         90         334         5           21         31         34         22         64         90         343         5           22         32         34         23         64         90         347         5           23         33.5         34         24         64         90         361         5           24         34.5         34         26         64         90         369         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38	6300M 6305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
19         28.5         34         20         64         90         292         5           20         29.5         34         21         64         90         334         5           21         31         34         22         64         90         347         5           22         32         34         23         64         90         347         5           23         33.5         34         24         64         90         361         5           24         34.5         34         25         64         90         369         5           25         36         34         26         64         90         369         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38			-					
20         29.5         34         21         64         90         334         5           21         31         34         22         64         90         343         5           22         32         34         23         64         90         347         5           23         33.5         34         24         64         90         361         5           24         34.5         34         26         64         90         369         5           25         36         34         26         64         90         384         5           26         37         34         27         64         90         384         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
21         31         34         22         64         90         343         5           22         32         34         23         64         90         347         5           23         33.5         34         24         64         90         361         5           24         34.5         34         25         64         90         369         5           25         36         34         26         64         90         369         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40			-		-			
22         32         34         23         64         90         347         5           23         33.5         34         24         64         90         361         5           24         34.5         34         25         64         90         369         5           25         36         34         26         64         90         369         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         557         5           34         47         40								
23         33.5         34         24         64         90         361         5           24         34.5         34         25         64         90         352         5           25         36         34         26         64         90         369         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         570         5           35         48.5		-	-				343	
24         34.5         34         25         64         90         352         5           25         36         34         26         64         90         369         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         503         5           30         42         38         31         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5								
25         36         34         26         64         90         369         5           26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         570         5           36         49.5         42         37         61         90         622         5           36         49.5								
26         37         34         27         64         90         384         5           27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         570         5           36         49.5         42         37         61         90         631         2           36         49.5	24	34.5	34	25	64	90	352	5
27         38.5         37         28         64         90         425         5           28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5	25	36	34	26	64	90	369	
28         39.5         38         29         63         90         470         5           29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5		37	34	27	64	90	384	
29         41         38         30         63         90         503         5           30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         90 </th <th>27</th> <th>38.5</th> <th>37</th> <th>28</th> <th>64</th> <th>90</th> <th>425</th> <th></th>	27	38.5	37	28	64	90	425	
30         42         38         31         63         90         503         5           31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         557         5           34         47         40         35         61         90         622         5           36         49.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         838         2           46         62         47 </th <th>28</th> <th>39.5</th> <th>38</th> <th>29</th> <th>63</th> <th>90</th> <th>470</th> <th></th>	28	39.5	38	29	63	90	470	
31         43.5         38         32         62         90         517         5           32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         622         5           36         49.5         42         37         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57	29	41	38	30	63	90	503	
32         44.5         40         34         62         90         544         5           33         46         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50	30	42	38	31	63	90	503	5
33         46         40         34         62         90         557         5           34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48 </th <th>31</th> <th>43.5</th> <th>38</th> <th>32</th> <th>62</th> <th>90</th> <th>517</th> <th>5</th>	31	43.5	38	32	62	90	517	5
34         47         40         35         61         90         570         5           35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48         51         57         90         1005         2           52         69.5         5	32	44.5	40	34	62	90	544	
35         48.5         42         36         61         90         622         5           36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48         51         57         90         1005         2           52         69.5         53         49         —         100         1270         2           53         71	33	46	40	34	62	90	557	5
36         49.5         42         37         61         90         631         2           38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48         51         57         90         1005         2           52         69.5         53         49         —         100         1270         2           53         71         54         49         —         100         1338         2           54         72         5	34	47	40	35	61	90	570	
38         52         45         39         60         90         710         2           40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48         51         57         90         1005         2           52         69.5         53         49         —         100         1270         2           53         71         54         49         —         100         1338         2           54         72         55         49         —         100         1351         2           55         73.5	35	48.5	42	36	61	90	622	5
40         54.5         45         41         60         90         742         2           41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48         51         57         90         1005         2           52         69.5         53         49         —         100         1270         2           53         71         54         49         —         100         1338         2           54         72         55         49         —         100         1351         2           55         73.5         53         52         —         100         1388         2           56         74.5         <	36	49.5	42	37	61	90	631	2
41         56         47         42         59         90         802         2           42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48         51         57         90         1005         2           52         69.5         53         49         —         100         1270         2           53         71         54         49         —         100         1338         2           54         72         55         49         —         100         1351         2           55         73.5         53         52         —         100         1388         2           56         74.5         53         52         —         100         1389         2           57         76 <t< th=""><th>38</th><th>52</th><th>45</th><th>39</th><th>60</th><th>90</th><th>710</th><th>2</th></t<>	38	52	45	39	60	90	710	2
42         57         47         43         59         90         829         2           44         59.5         47         45         59         90         838         2           46         62         47         47         58         90         906         2           48         64.5         50         49         57         90         998         2           50         67         48         51         57         90         1005         2           52         69.5         53         49         —         100         1270         2           53         71         54         49         —         100         1338         2           54         72         55         49         —         100         1351         2           55         73.5         53         52         —         100         1388         2           56         74.5         53         52         —         100         1389         2           57         76         53         52         —         100         1480         2           58         77         <	40	54.5	45	41	60	90	742	2
44     59.5     47     45     59     90     838     2       46     62     47     47     58     90     906     2       48     64.5     50     49     57     90     998     2       50     67     48     51     57     90     1005     2       52     69.5     53     49     —     100     1270     2       53     71     54     49     —     100     1338     2       54     72     55     49     —     100     1351     2       55     73.5     53     52     —     100     1388     2       56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	41	56	47	42	59	90	802	2
46     62     47     47     58     90     906     2       48     64.5     50     49     57     90     998     2       50     67     48     51     57     90     1005     2       52     69.5     53     49     —     100     1270     2       53     71     54     49     —     100     1338     2       54     72     55     49     —     100     1351     2       55     73.5     53     52     —     100     1388     2       56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	42	57	47	43	59	90	829	2
48     64.5     50     49     57     90     998     2       50     67     48     51     57     90     1005     2       52     69.5     53     49     —     100     1270     2       53     71     54     49     —     100     1338     2       54     72     55     49     —     100     1351     2       55     73.5     53     52     —     100     1388     2       56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	44	59.5	47	45	59	90	838	2
50     67     48     51     57     90     1005     2       52     69.5     53     49     —     100     1270     2       53     71     54     49     —     100     1338     2       54     72     55     49     —     100     1351     2       55     73.5     53     52     —     100     1389     2       56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	46	62	47	47	58	90	906	2
52     69.5     53     49     —     100     1270     2       53     71     54     49     —     100     1338     2       54     72     55     49     —     100     1351     2       55     73.5     53     52     —     100     1388     2       56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	48	64.5	50	49	57	90	998	2
53         71         54         49         —         100         1338         2           54         72         55         49         —         100         1351         2           55         73.5         53         52         —         100         1388         2           56         74.5         53         52         —         100         1389         2           57         76         53         52         —         100         1467         2           58         77         53         52         —         100         1480         2           60         79.5         58         55         —         100         1626         2	50	67	48	51	57	90	1005	
54     72     55     49     —     100     1351     2       55     73.5     53     52     —     100     1388     2       56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	52	69.5	53	49	_	100	1270	2
55     73.5     53     52     —     100     1388     2       56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	53	71	54	49	_	100	1338	2
56     74.5     53     52     —     100     1389     2       57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	54	72	55	49	_	100	1351	2
57     76     53     52     —     100     1467     2       58     77     53     52     —     100     1480     2       60     79.5     58     55     —     100     1626     2	55	73.5	53	52	_	100	1388	2
58         77         53         52         —         100         1480         2           60         79.5         58         55         —         100         1626         2	56	74.5	53	52	_	100	1389	2
<b>60</b> 79.5 58 55 — 100 1626 2	57	76	53	52	_	100	1467	2
	58	77	53	52	_	100	1480	2
<b>63</b> 83.5 58 55 — 100 1740 2	60	79.5	58	55	_	100	1626	2
	63	83.5	58	55	_	100	1740	2

6012M-75 (mm)	D (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
12	35	15.5	40	75	253	10
14	35	15.5	40	75	265	10
15	35	15.5	40	75	271	10
16	35	15.5	40	75	285	10
17	35	15.5	40	75	292	10
18	35	15.5	40	75	302	10
19	35	15.5	40	75	312	10
20	35	15.5	40	75	323	10
22	38	22.5	40	75	340	10
24	38	22.5	40	75	362	10
27	38	22.5	40	75	402	10
30	38	28.5	40	75	445	10
32	38	28.5	40	75	485	10
36	42	28.5	40	75	663	10

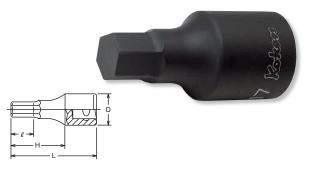
	T×W (mm)	D (mm)	L (mm)	Д¯Д (g)	(pcs.)
6101	6.4×33.5	35	50	205	10

#### 7/8 34.5 15/16 1. 1/16 38.5 1. 1/8 1. 3/16 1. 1/4 44.5 1. 5/16 1. 3/8 48.5 1. 7/16 1. 1/2 1. 9/16 54.5 1. 5/8 1.11/16 58.5 1. 3/4 59.5 1.13/16 68.5 2. 1/16 2. 1/8 2. 3/16 2. 1/4 2. 5/16 2. 3/8 79.5 2. 7/16

#### 6012M-75

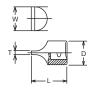


Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux



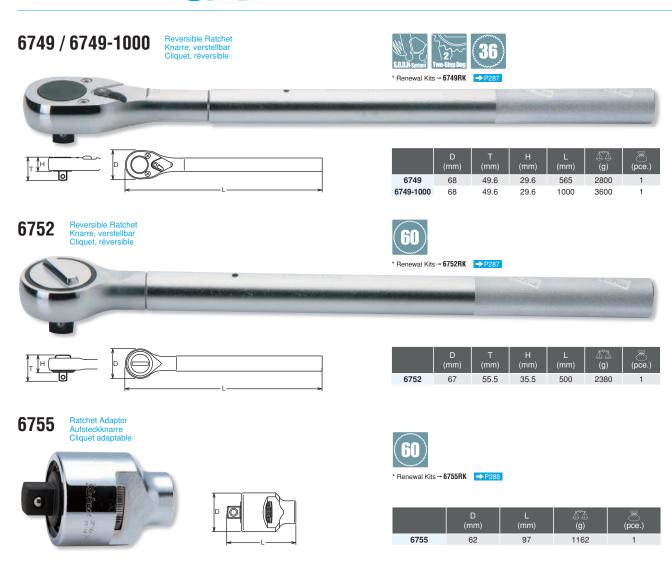


Socket for Slotted Heads Steckschlüssel für Schlitzschrauben Douilles tournevis pour vis à fente





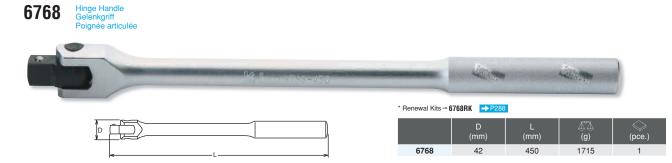




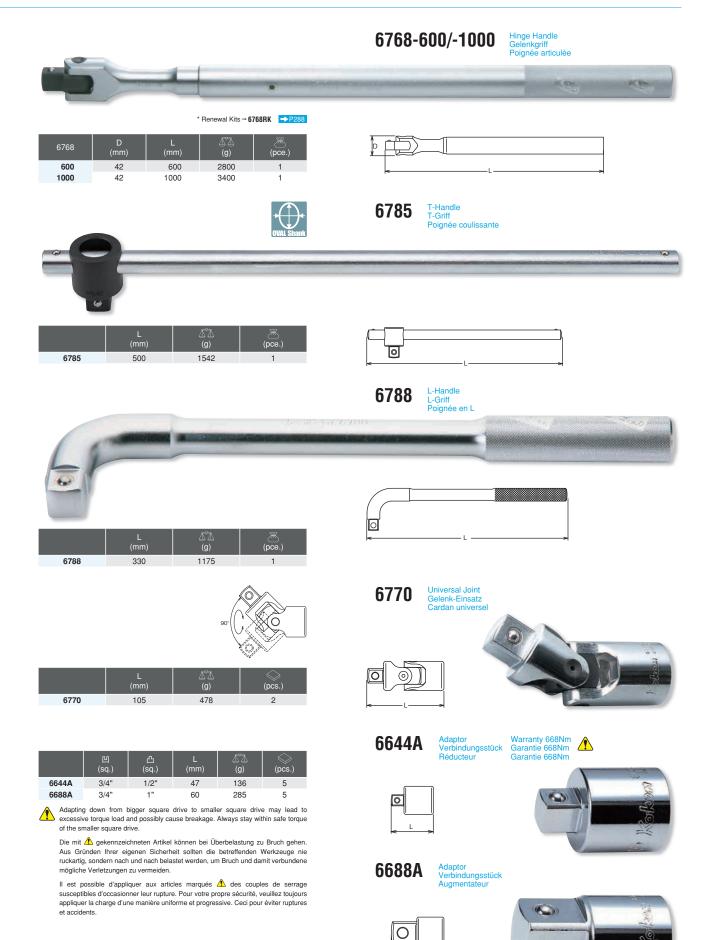




6760	D (mm)	L (mm)	₫Д (g)	(pcs.)
75	35	75	335	10
100	35	100	434	10
125	35	125	528	10
150	35	150	624	2
200	35	200	815	1
300	35	300	1203	1
400	35	400	1585	1







Hand Steckschlüssel 3/4\*\*
Douilles à main

6201M-00 6201A-00 6201M-05 6201A-05

Socket Sets Steckschlüssel Sätze Jeux de clés à douilles

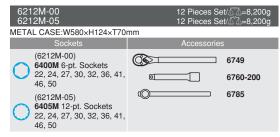


6201M-00 6201M-05	16 Pieces Set/\$\tilde{\alpha} = 17,300g 16 Pieces Set/\$\tilde{\alpha} = 17,300g
METAL CASE:W580×H200×T85	mm
Sockets	Accessories
(6201M-00) 6400M 6-pt. Sockets 22, 24, 27, 30, 32, 36, 41, 46, 50, 55, 60  (6201M-05) 6405M 12-pt. Sockets 22, 24, 27, 30, 32, 36, 41, 46, 50, 55, 60	6749 6760-200 6760-400 6768 6785

6201A-00 6201A-05 METAL CASE:W580×H200×T85mm (6201A-00) 6749 **6400A** 6-pt. Sockets 7/8, 15/16, 1.1/16, 1.1/8, 1.1/4, 1.5/16, 1.7/16, 1.1/2, 1.5/8, 1.11/16, 6760-200 6760-400 1.13/16, 1.7/8, 2 6768 (6201A-05) 6405A 12-pt. Sockets 7/8, 15/16, 1.1/16, 1.1/8, 1.1/4, 1.5/16, 1.7/16, 1.1/2, 1.5/8, 1.11/16, 6785 1.13/16, 1.7/8, 2

6212M-00 6212M-05





## 8400M / 8400A O







	8400M 8405M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pce.)
	24	36.5	44	17	60	348	1
	27	40.5	44	19	60	362	1
	30	44	45	21	65	410	1
	32	46.5	45	23	65	455	1
	33	48	46	23.5	65	485	1
	35	50.5	48	24.5	65	536	1
	36	51.5	48	25	65	600	1
	38	54	50	26	65	624	1
	40	56.5	53	27	65	686	1
	41	58	53	28	68	747	1
	42	59	53	28.5	68	789	1
	46	64	53	31	72	928	1
	50	69	53	34	72	943	1
	54	74	55	37	72	1016	1
	55	75.5	53	42	77	1167	1
	58	79	53	41	77	1200	1
	60	81.5	58	46	82	1440	1
	63	85.5	58	45	82	1470	1
	65	88	63	49	86	1683	1
	67	90.5	63	49	86	1840	1
	68	91.5	63	49	86	1800	1
	70	94	68	50	88	1963	1
	71	95.5	68	50	88	2200	1
	75	100.5	73	53	90	2204	1
New	78	104	75	52.5	90	2500	1
	80	106.5	75	58	95	2550	1
	83	110.5	78	57	95	2730	1
	85	113	80	57	95	2680	1
	90	119	80	59	100	3420	1
	95	125.5	85	58	100	4900	1
	100	131.5	85	57	100	4840	1

8012M-80 (mm)	D (mm)	ل (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
17	44.2	15.5	45	80	400	5
19	44.2	15.5	45	80	410	5
22	47.9	22.5	45	80	436	5
24	47.9	22.5	45	80	471	5
27	47.9	22.5	45	80	526	5
30	47.9	22.5	45	80	658	5
32	47.9	22.5	45	80	715	5
36	54.2	22.5	45	80	945	5

## 8405M / 8405A



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





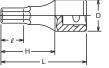
8400A 8405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	L (mm)	Д <sup>™</sup> Д (g)	(pce.)
15/16	36.5	44	17	60	355	1
1. 3/16	44	45	21	65	410	1
1. 1/4	46.5	45	23	65	455	1
1. 5/16	48	46	23.5	65	485	1
1. 3/8	50.5	48	24.5	65	536	1
1. 7/16	53	50	25.5	65	607	1
1. 1/2	54	50	26	65	624	1
1. 9/16	56.5	53	27	65	686	1
1. 5/8	58	53	28	68	747	1
1.11/16	60.5	53	29	68	830	1
1. 3/4	61.5	53	29.5	68	807	1
1.13/16	64	53	31	72	928	1
1. 7/8	66.5	53	32	72	936	1
1.15/16	68	53	32.5	72	941	1
2	70.5	53	37	72	976	1
2. 1/16	73	54	37	72	1027	1
2. 1/8	74	55	37	72	1016	1
2. 3/16	76.5	53	41	77	1192	1
2. 1/4	78	53	41	77	1177	1
2. 5/16	80.5	53	41	77	1292	1
2. 3/8	81.5	58	46	82	1440	1
2. 7/16	84	58	45	82	1495	1
2. 1/2	86.5	58	45	82	1497	1
2. 9/16	88	63	49	86	1683	1
2. 5/8	90.5	63	49	86	1840	1
2.11/16	91.5	63	49	86	1800	1
2. 3/4	94	68	50	88	1963	1
2.13/16	96.5	68	50	88	2035	1
2. 7/8	98	70	50	88	2100	1
2.15/16	100.5	73	53	90	2204	1
3	103	75	53	90	2406	1
3. 1/8	106.5	75	58	95	2550	1
3. 1/4	110.5	78	57	95	2730	1
3. 3/8	114	80	57	95	3050	1
3. 1/2	119	80	59	100	3420	1
3. 3/4	125.5	85	58	100	4900	1

## 8012M-80



Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux





" Douilles à main

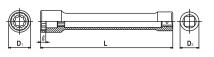
## 8102M 🔾 🔾





Extra long socket for wheel nuts Extra lange Steckschlüssel für Radmuttern Douilles extra-longues pour écrous de roue



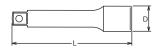


8102M-400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)
41Wx21W	58	49.9	14	400	2610	1
32	48.5	49.9	32	400	2210	1
33	49.8	49.9	32	400	2220	1

### 8760-200/-400

Extension Bars Verlängerungen Rallonges





8760	D (mm)	L (mm)	₫∄ (g)	(pce.)
200	44	200	1300	1
400	44	400	2570	1

#### 8770

Universal Joint Gelenk-Einsatz Cardan universel



	L (mm)	Д¯Д (g)	(pce.)
8770	143	1170	1
90°			



#### 8866A

Adaptor Verbindungsstück Réducteur

Warranty 1850Nm Garantie 1850Nm Garantie 1850Nm









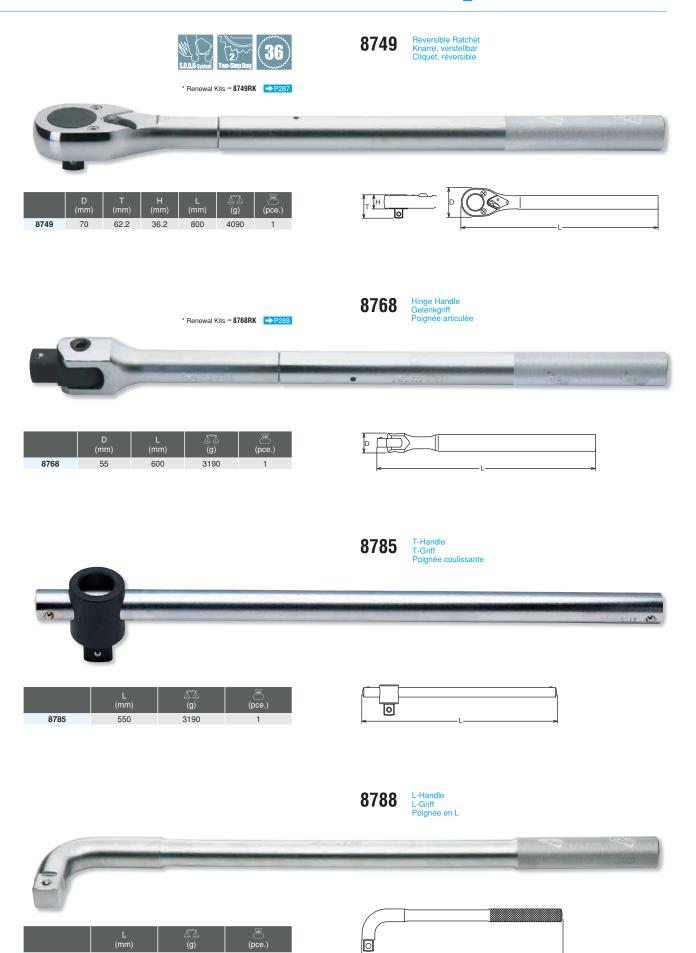
Adapting down from bigger square drive to smaller square drive may lead to excessive torque and possibly cause breakage.

Reduzierstücke sind mit Vernunft einzusetzen.

Es besteht Bruchgefahr. Überschreiten Sie niemals die Sicherheitsgrenzen.

Les réducteurs doivent être utilisés avec modération. Ne dépassez jamais les limites





o

8788

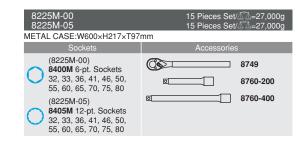
Hand Steckschlüssel Douilles à main

8225M-00 8225M-05

Socket Sets Steckschlüssel Sätze Jeux de clés à douilles

"







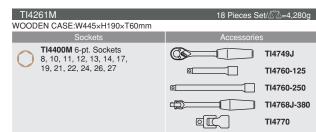


#### TI4261M

Socket Set Titanium Steckschlüssel Satz Titanium Jeu de clés à douille Titanium







#### **Characteristic of TITAN**

: Makes it effective for operating tools. The specific gravity is only about 58% of chrome molybdenum steel Light weight

which is used for our normal products.

: Corrosion Resistance is greatly improved against salt water and any kind of chemical products. Non-Corrosion

Non-Magnetic : Non-Magnetic material will prevent the tools from magnetizing.

#### Eigenschaften der TITAN Legierung

Geringes Gewicht: Das spezifische Gewicht liegt bei 58% herkömmlicher Chrom-Molybdän Stähle.

: Meerwasser oder Säuren hinterlassen keine Spuren. Korrosionsfest Nicht magnetisch : Titan Werkzeuge lassen sich nicht magnetisieren.

#### Caractéristiques de l'alliage TITAN

Légèreté : Son poids spécifique n'est que 58% de celui de l'acier au chrome-molybdène

utilisé pour tous nos produits standards.

Anti-corrosion : Aussi bien pour l'eau que pour tous les produits chimiques.

Anti-magnétique : Le Titan empêche toute magnétisation de l'outil.

Pentagonal drive is designed to avoid using with normal square drive items, so that it will provide extra safety and much more strength.

Der 5-kant Antrieb (Pentagon-Drive) gewährt einen kraftvollen Anzug und unterbindet aus Sicherheitsgründen die Verwendung von Zubehörteilen anderer Legierungen.

L'entraînement pentagonal est conçu pour obtenir un serrage puissant et pour empêcher l'utilisation d'accessoires traditionnels et ce pour des raisons de sécurité.





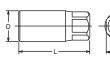


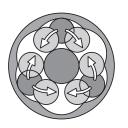
## 4100M / 4100A O



Screw and Stud Pullers Stehbolzendreher Extracteurs de goujons







#### Screw and Stud Pullers

Hexagon body design can lessen the excessive load on cages and rollers inside the pullers.

#### Stehbolzendreher

Der neue Körper mit sechs Walzenmulden verteilt den Druck auf Käfig und Walzen weitaus vorteilhafter.

#### Extracteurs de goujons

Le nouveau corps de forme hexagonale répartit l'effort de façon plus uniforme sur la cage et les rouleaux

## 4211M / 4211A O



Screw and Stud Pullers Sets Stehbolzendreher im Satz Jeux d'extracteurs de goujons



### 4214M



Screw and Stud Pullers Set Stehbolzendreher im Satz Jeux d'extracteurs de goujons



4100M (mm)		D (mm)	L (mm)	H (mm)	₫∄ (g)	(pcs.)
5		24	65	21	145	10
6		24	65	21	150	10
7		24	65	21	150	10
8		24	65	21	147	10
9	1/2"	28	75	21	217	10
10	1/2	28	75	21	213	10
10.5		28	75	21	202	10
11		28	75	21	218	10
12		28	75	21	220	10
14		34	75	27	340	5
16	<b>-</b> <u></u> Λ	34	75	27	315	5

4100A (inch)		D (mm)	L (mm)	H (mm)	₫Д (g)	(pcs.)
1/4		24	65	21	150	10
5/16		24	65	21	147	10
3/8	1/2"	28	75	21	213	10
7/16	1/2	28	75	21	218	10
1/2		28	75	21	191	10
9/16		34	75	27	340	5
5/8	-1	34	75	27	315	5

\* Renewal Kits → 4100MRK/4100ARK → P289

A100M-16 and 4100A-5/8 do not have 1/2" square drive.

Drive the outer hexagon part with 27mm sockets or ring wrenches.

Die Artikel 4100M 16mm und 4100A 5/8" haben keinen 1/2" Antriebsvierkant.

Bitte benutzen Sie den 27mm Aussensechskant. Les articles 4100M-16 et 4100A-5/8" n'ont pas de carré entraînant 1/2" , veuillez utiliser l'hexagonal 6 pans 27 mm

#### Tolerance

410 (m		4100A (inch)		
5	4.7- 5	1/4	6 - 6.4	
6	5.6- 6	5/16	7.6- 8	
7	6.6- 7	3/8	9 - 9.6	
8	7.6- 8	7/16	10.5-11.1	
9	8.4- 9	1/2	12.1-12.7	
10	9.4-10	9/16	13.5-14.3	
10.5	9.9-10.5	5/8	15.2-16	
11	10.4-11			
12	11.4-12			
14	13.2-14			
16	15.2-16			

4211M	4 Pieces Set/♨७=1,040g				
METAL CASE:W215×H80×T47mm					
PULLER					
4100M Stud Pullers 6, 8, 10, 12					
4211A	4 Pieces Set/∄∄=1,040g				
4211A METAL CASE:W215×H80×T47mm	4 Pieces Set/△☐=1,040g				
	4 Pieces Set/ὧ d=1,040g				



6100M (mm)		D (mm)	L (mm)	H (mm)	₫∄ (g)	(pce.)
18	3/4"	48	100	36	840	1
20	3/4	48	100	36	816	1
22		48	100	36	745	1
24		48	100	36	739	1
27	-1	63	125	46	1707	1
28	-41	63	125	46	1701	1
29		63	125	46	1696	1
30		63	125	46	1691	1

\* Renewal Kits → 6100MRK → P289

6100M-22 to -30 do not have 3/4" square drive.

Drive the outer hexagon part with sockets or ring wrenches (size 22-24mm = 36H, 27-30mm = 46H.)

Gisce 22-2-4-11m - 4-01.1, 27-3-01m - 4-01.1. Die Stehbolzendreher ab Abmessung 22mm haben keinen 3/4" Antriebsvierkant. Bitte benutzen sie den Aussensechskant.

#### Tolerance

6100M (mm)				
18	16.9-18			
20	18.8-20			
22	20.8-22			
24	22.7-24			
27	25.7-27			
28	26.7-28			
29	27.6-29			
30	28.6-30			

14100M (mm)		D₁ (mm)	D <sub>2</sub> (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
6		24	25	48	126	10	*1
7		24	25	48	126	10	*1
8	1/2"	24	25	48	122	10	*1
9	1/2	28	30	48	181	10	*2
10		28	30	48	181	10	*2
12		28	30	48	175	10	*2

14100A (inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	ⅆ
1/4		24	25	48	126	10	*1
5/16		24	25	48	122	10	*1
3/8	1/2"	28	30	48	181	10	*2
7/16		28	30	48	181	10	*2
1/2		28	30	48	180	10	*2

\*1 C-Ring=1401C,Pin/O-Ring=1401A/B

#### Tolerance

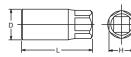
	00M m)	14100A (inch)		
6	5.6- 6	1/4	6 - 6.4	
7	6.6- 7	5/16	7.6- 8	
8	7.6- 8	3/8	9 - 9.6	
9	8.4- 9	7/16	10.5-11.1	
10	9.4-10	1/2	12.1-12.7	
12	11.4-12			

### 6100M O



Screw and Stud Pullers Stehbolzendreher Extracteurs de goujons



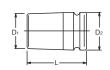




### 14100M / 14100A



IMPACT Screw and Stud Pullers IMPACT Stehbolzendreher Extracteurs de goujons IMPACT





<sup>\*2</sup> C-Ring=1402C,Pin/O-Ring=1402A/B

### 1418 / 141





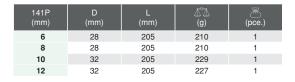
141S (mm)	D (mm)	L (mm)	₫Д (g)	(pce.)
6	28	120	150	1
8	28	120	150	1
10	32	120	153	1
12	32	120	152	1

141S (inch)	D (mm)	L (mm)	₫Д (g)	(pce.)
5/16	28	120	150	1
3/8	32	120	153	1
1/2	32	120	152	1

141 (mm)	D (mm)	L (mm)	ДД (g)	(pce.)
6	28	205	215	1
8	28	205	215	1
10	32	205	234	1
12	32	205	233	1

141 (inch)	D (mm)	L (mm)	Д¯Д (g)	(pce.)
5/16	28	205	215	1
3/8	32	205	234	1
1/2	32	205	233	1







The three roller system can protect the studs from damage.

Das Drei-Rollen-System schont die Stehbolzen. Le système à trois roulettes n'endommage pas les goujons.



1201





1201 4 Pieces Set/△□=973g
METAL CASE:W240×H100×T32mm

PULLER

141S Stud Puller Ratchet
6, 8, 10, 12

4104 O Screw and Stud Puller Stehbolzendreher Extracteur de goujons

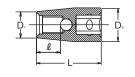




4104		Tolerance		D	L	<b>L</b> A	<b>®</b>
4104   1/2		min	max	(mm)	(mm)	(g)	(pcs.)
	1/2"	φ6	φ19	54	56	489	2

4103M (mm)		D <sub>1</sub> (mm)	D₂ (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)
6(1.0)		10.3	22	9	37	54	10
7(1.0)		11.5	22	10	37	58	10
8(1.25)		13.2	22	11	37	60	10
10(1.25)	1/2"	15.3	23	13	44	86	10
10(1.5)		15.3	23	13	44	86	10
12(1.25)		17.8	23	14	44	86	10
12(1.75)		17.8	23	14	44	86	10









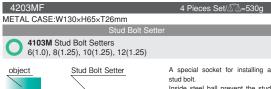


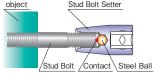




METAL CASE:W130×H65×T26mm

4203M





Inside steel ball prevent the stud bolt stuck onto the socket. After

installing a stud bolt, turn to anti-clockwise to removing the socket.

Spezialwerkzeug zum Setzen von Stehbolzen. Der Bolzen trifft im

Werkzeug nur auf den Stahlbolzen, was die Kontaktfläche verringert. Nach dem Setzen des Stehbolzens kann das Werkzeug im Linkslauf vom Stehbolzen abgezogen werden.

Douilles spéciales pour monter les goujons.

Le goujon est en contact avec une bille d'acier pour l'empêcher d'adhérer à la douille.

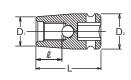
Après avoir posé le goujon, tourner dans le sens antihorlogique pour le retirer

13103M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	ДĨД (g)	(pcs.)	(1)
5(0.8)		9.5	19	8	32	39	10	*1
6(1.0)		10.8	19	9	32	41	10	*1
7(1.0)	3/8"	12.5	19	10	32	44	10	*1
8(1.25)	3/6	13.5	19	11	35	49	10	*1
10(1.25)		15.8	19	13	35	49	10	*1
10(1.5)		15.8	19	13	35	49	10	*1

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

### 13103M



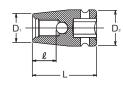




## 14103M



Impact Stud Bolt Setters Impact Stehbolzensetzer Monte-goujons Impact





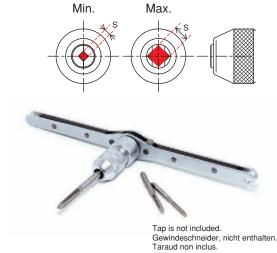
14103M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)	W
6(1.0)		12	25	11	42	75	10	*1
7(1.0)		13.2	25	12	42	78	10	*1
8(1.25)		14.5	25	15	42	81	10	*1
10(1.25)		17	25	18	49	106	10	*1
10(1.5)	1/2"	17	25	18	49	106	10	*1
12(1.25)		19.5	25	19	49	107	10	*1
12(1.75)		19.5	25	19	49	107	10	*1
14(1.5)		22	25	21	55	128	10	*1
14(2.0)		22	25	21	55	128	10	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239

3132

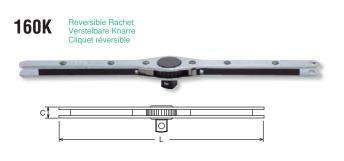
## 3131A Adjustable Tap Holder Halter für Gewindeschneider, einstellbar Porte taraud, ajustable

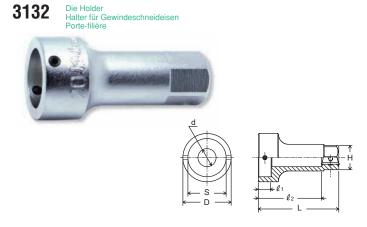




		C (mm)	L (mm)	₫¼ (g)	(pce.)
160K	3/8"	10	220	130	1
160K-1/2	1/2"	10	220	135	1

		S (mm)	D (mm)	d (mm)	H (mm)	ℓ 1 (mm)	<b>ℓ</b> 2 (mm)	L (mm)	Ø∄ (g)	(pcs.)
3132-20	3/8"	20	28	8	17	7	46	60	130	5
4132-25	1/2"	25	34	14	22	9	42	60	170	2









Die is not included. Gewindeschneideisen, nicht enthalten. Filière non inclus.

2127 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫¼ (g)	(pcs.)
4		7	13	4	23	14	10
4.5		7.4	13	4	23	14	10
5		8	13	5	23	14	10
5.5		8.8	13	5	23	14	10
6	1/4"	9.5	13	6	23	14	10
7	1/4	10.9	13	6	23	14	10
8		11.5	13	8	23	14	10
9		13	13	8	23	15	10
9.5		13.8	13	10	23	16	10
10		14.8	13	10	23	17	10

RS2127/6	6 Pieces Set/Rail 150mm	ДД (g)
	4, 4.5, 5, 5.5, 6, 7	105

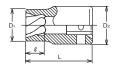
RS2127/10	10 Pieces Set/Rail 150mm	₫¼ (g)
	4, 4.5, 5, 5.5, 6, 7, 8, 9, 9.5,10	180

3127 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫₫ (g)	(pcs.)
8		11.5	19	8	32	40	10
9		13	19	8	32	40	10
9.5		13.8	19	8	32	41	10
10		14.8	19	10	32	41	10
11		16	19	10	32	43	10
12	3/8"	17	19	12	32	44	10
13	3/0	18.5	19	12	32	46	10
14		19.7	19	14	32	48	10
15		20.7	19	14	32	52	10
16		22.2	22	14	32	66	10
17		23.5	22	16	35	80	10
19		26	22	16	35	92	10

RS3127/8	8 Pieces Set/Rail 200mm	Д <sup>™</sup> Д (g)
	8, 9, 10, 11, 12, 13, 14, 16	420

3128-80 (mm)	Ø	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
8		11.5	19	6	80	58	10
9		13	19	6	80	61	10
10		14.8	19	8	80	66	10
11	3/8"	16	19	8	80	70	10
12		17	19	10	80	77	10
13		18.5	19	10	80	80	10
14		19.7	19	12	80	82	10

### 2127 O NUTTWISTER®







RS2127/6 O Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

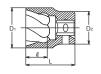




RS2127/10 O Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



3127 O NUTTWISTER®





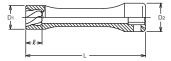


RS3127/8 O Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



3128 (L80) O NUTTWISTER® (Long type)

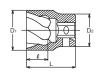




#### 4127 O NUTTWISTER®







4127 (mm)		D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
14		19.7	30	14	42	125	10
17		23.5	30	16	42	137	10
19		26	30	16	42	146	10
21	1/2"	28	30	17	42	153	10
22		29.5	30	17	42	158	10
24		32	30	18	42	174	10
25.4		33.5	30	18	42	183	10





RS4127/6 O Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail

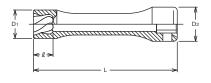


RS4127/6	6 Pieces Set/Rail 200mm	₫Д (g)
	17, 19, 21, 22, 24, 25.4	960

## 4128 (L120) O NUTTWISTER® (Long type)









4128-120 (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
17		23.5	30	16	120	227	10
19	1/2"	26	30	16	120	247	10
21	1/2	28	30	17	120	262	10
22		29.5	30	17	120	259	10

A very effective method and easy solution for removing rounded off nuts, bolts and studs. The sharp edges of the NUTTWISTER® Socket opening will tighten around the nut, bolt or stud and turn it easily off.

Eine einfache und wirkungsvolle Methode rund gedrehte Muttern und Bolzen herauszudrehen bzw. zu öffnen.

nerauszudretneri bzw. zu dinien. Die scharfen Kanten der gewundenen NUTTWISTER® Öffnung setzen sich um die Mutter bzw. den Schraubenkopf und drehen sie problemlos heraus.

Il existe une méthode simple mais efficace pour retirer les écrous et les boulons arrondis ainsi que les goujons et les dispositifs de verrouillage des jantes. Les arêtes vives de la douille NUTTWISTER® vont <mordre> l'écrou, le boulon ou le goujon

et permettre ainsi facilement son extraction.

3129-32 (mm)	$\square$	D₁ (mm)	D <sub>2</sub> (mm)	L (mm)	₫'∆ (g)	(pcs.)
2		2	19	32	32	10
3		3	19	32	33	10
4	3/8"	4	19	32	33	10
6	3/8	6	19	32	35	10
8		8	19	32	37	10
10		10	19	32	40	10

3129-60 (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫'∄ (g)	(pcs.)
2		2	19	60	38	10
3		3	19	60	42	10
4	3/8"	4	19	60	44	10
6	3/8	6	19	60	47	10
8		8	19	60	53	10
10		10	19	60	64	10

RS3129/6-L32	6 Pieces Set/Rail 150mm	Ø∑ (g)	
2, 3, 4, 6, 8, 10			

RS3129/6-L60	6 Pieces Set/Rail 150mm	Д¯Д (g)
	2, 3, 4, 6, 8, 10	320

4129-37 (mm)	$\square$	D₁ (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)
8		8	24	37	59	10
10		10	24	37	63	10
12	1/2"	12	24	37	67	10
14	ш	14	24	37	72	10
16		16	24	37	78	10

4129-75 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)
8		8	24	75	80	10
10		10	24	75	94	10
12	1/2"	12	24	75	110	10
14		14	24	75	130	10
16		16	24	75	150	10

RS4129/5-L37	5 Pieces Set/Rail 150mm	₫Д (g)		
8, 10, 12, 14, 16				
RS4129/5-I 75	5 Pieces Set/Rail 150mm	$\Delta \mathcal{D}$		

8, 10, 12, 14, 16

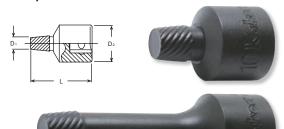
#### 3129-32/-60 BOLTTWISTER®





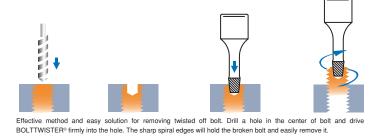


4129-37/-75 BOLTTWISTER®









600

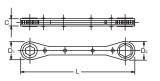
Bolt size	Drill size
M5	φ 2.4~ 2.6
M6	$\phi$ 3.2 $\sim$ 3.5
M8	φ 4.2~ 4.5
M10~M12	φ 6.2~ 6.5
M14~M16	φ 8.2~ 8.5
M18~M20	$\phi$ 10.2 $\sim$ 10.5
M22~M24	$\phi$ 12.2 $\sim$ 12.5
M27~M30	φ14.2~14.5
M33	$\phi$ 16.2 $\sim$ 16.5
	M5 M6 M8 M10~M12 M14~M16 M18~M20 M22~M24 M27~M30

### 102NM / 102NA



Without reverse lever Nicht umstellbar Non réversible





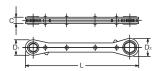
102NM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫¼ (g)	(pcs.)
6×7	108	15.3	16.4	7.5	60	10
7×8	108	15.3	16.4	7.5	60	10
8×9	134	17.1	19.7	7.5	80	10
8×10	134	17.1	19.7	7.5	80	10
10×11	140	20.1	22.7	7.5	87	10
10×12	140	20.1	22.7	7.5	87	10
12×13	145	23.6	24.6	9	112	10
12×14	145	23.6	24.6	9	112	10

102NA (inch)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫∄ (g)	(pcs.)
7/32× 1/4	108	15.3	16.4	7.5	60	10
$1/4 \times 9/32$	108	15.3	16.4	7.5	60	10
$1/4 \times 5/16$	108	15.3	16.4	7.5	60	10
5/16×11/32	134	17.1	19.7	7.5	80	10
5/16× 3/8	134	17.1	19.7	7.5	80	10
$3/8 \times 7/16$	140	20.1	22.7	7.5	87	10
7/16× 1/2	145	23.6	24.6	9	112	10
$1/2 \times 9/16$	145	23.6	24.6	9	112	5

### 102KM / 102KA







102KM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫Д (g)	(pcs.)
6×7	108	15.3	16.4	7.2	51	10
7×8	108	15.3	16.4	7.2	51	10
8×9	134	17	20	9.1	76	10
8×10	134	17	20	9.1	76	10
10×11	141	21	23.5	9.1	84	10
10×12	141	21	23.5	9.1	84	10
12×13	146	24	25	9.1	89	10
12×14	146	24	25	9.1	89	5
13×17	200	27.1	31.8	11.5	190	5
14×17	200	27.1	31.8	11.5	200	5

102KA (inch)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫∄ (g)	(pcs.)
7/32×1/4	108	15.3	16.4	7.2	51	10
1/4 ×5/16	108	15.3	16.4	7.2	51	10
3/8 ×7/16	141	21	23.5	9.1	84	10
1/2 ×9/16	146	24	25	9.1	89	5

### 102KM (BH)

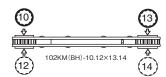


With Twin Openings (Two-in-One) Doppel-Ringschlüssel (zwei Öffnungen in einer) Ouvertures doubles





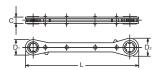
#### 102KM-BH (g) 5.5• 6× 7• 8 108 15.3 16.4 10 60 10 8 •10×12•13 141 10 9 •10×11•12 13 87 10 10 •12×13•14 146 25 98 13 10 13 •14×15•17



## 102KT 🔘







102KT (E)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫Д (g)	(pcs.)
E 4×E 6	108	15.3	16.4	7.5	51	10
E 6×E 8	108	15.3	16.4	7.5	51	10
E10×E12	134	17	20	9	76	10

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103KM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫₫ (g)	(pcs.)
6× 7	108	15.3	16.4	7.5	51	5
7× 8	108	15.3	16.4	7.5	51	5
8× 9	134	17	20	9	76	5
8×10	134	17	20	9	76	5
10×11	140	21	23.5	9	84	5
10×12	140	21	23.5	9	84	5
12×13	145	24	25	9	89	5
12×14	145	24	25	9	89	5

103KA (inch)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫∄ (g)	(pcs.)
7/32× 1/4	108	15.3	16.4	7.5	51	5
$1/4 \times 5/16$	108	15.3	16.4	7.5	51	5
5/16×11/32	134	17	20	9	76	5
$3/8 \times 7/16$	140	21	23.5	9	84	5
$1/2 \times 9/16$	145	24	25	9	89	5

103KT (E)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫Д (g)	(pcs.)
E 4×E 6	104	15.3	16.4	7.5	51	5
E 6×E 8	104	15.3	16.4	7.5	51	5
E10×E12	128	17	20	9	76	5
E14×E16	139	24	25	9	89	5

145KM	L	D	C	Д <sup>™</sup> Д	(pcs.)
(mm)	(mm)	(mm)	(mm)	(g)	
10H	125	20.1	7.5	72	10



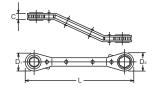
150-10H (mm)	D (mm)	l (mm)	L (mm)	Д <sup>™</sup> Д (g)	(pcs.)
5	12	3.5	11	6	10
6	12	4.5	12.5	7	10
7	12	5	14	7	10
8	12	6	15.5	7	10
9	13	6	16	7	10
10	14.3	7	17	9	10

1203	7 Pieces Set/△△=250g
METAL CASE:W130×H65×T20m	ım
Sockets	Accessory
<b>150.10H</b> 5, 6, 7, 8, 9, 10	(C) 145KM-10H

## 103KM / 103KA



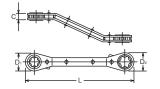




#### 103KT



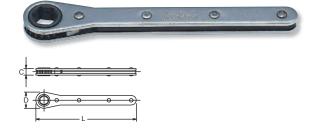




### 145KM-10H



Reversible, 10mm 6-pt. Verstellbar SW10mm Réversible 10mm



#### 150-10H



Sockets with 10mm 6-point Drive End Steckschlüssel mit 10mm Sechskant-Antrieb Douilles à conducteur de 10mm 6-pans mâle



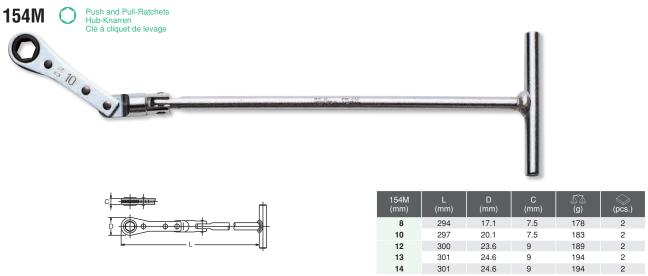


1203

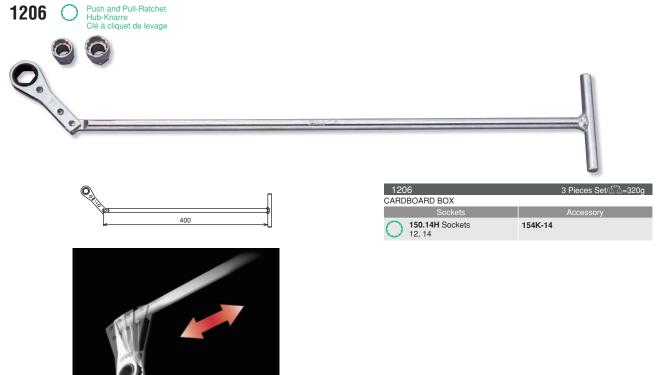


Sockets with 10mm 6-point Drive End in Set with Ratchet Steckschlüssel mit 10mm Sechskant-Antrieb mit Knarre im Satz Jeu de douilles à conducteur 10mm 6-pans mâle, avec cliquet

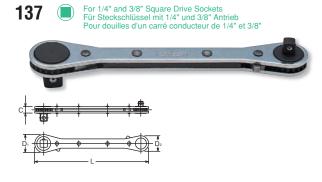








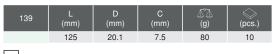
137	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫₫ (g)	(pcs.)
	141	23.5	21	9	104	5
1/4"×3/8"						



138	L (mm)	D <sub>1</sub> (mm)	D₂ (mm)	C (mm)	₫₫ (g)	(pcs.)
	141	23.5	21	9	97	10
_						

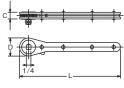


138		For Für Pou	Bits 101 Klingen 1 ur embouts	01 s 101			
			0	16-34e	0	0	9
c <del> </del>	+	==					
D <sub>1</sub>	•	- L ——		- D <sub>2</sub>			





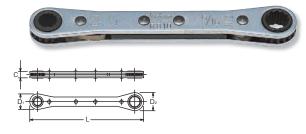
139				Sockets t 1/4" Antriet ré conducteu		
			0	ation of	9	9
	-	+				



138

R810 (inch)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	₫Д (g)	(pcs.)
1/4×5/16	108	15.3	16.4	7.5	60	10
3/8×7/16	140	20.1	22.7	7.5	87	10
1/2×9/16	145	23.6	24.6	9	112	10





101P +







101P (PH)	D (mm)	L (mm)	₫∄ (g)	(pcs.)
1	6.35	20.5	3	10
2	6.35	20.5	4	10
3	6.35	20.5	5	10

101S **(** 

	Slotted Bits
$\overline{}$	Sittled Dits
. 7	Schlitz Bits
$\sim$	
	Embouts, fente





101S	D (mm)	L (mm)	₫∄ (g)	(pcs.)
1.0×7	6.35	15	3	10
1.2×7	6.35	15	3	10

101H **(** 



Hex Bits Sechskant Bits Embouts, 6 pans creux





101H (mm)	D (mm)	L (mm)	ДĨД (g)	(pcs.)
3	6.35	20.5	5	10
4	6.35	20.5	5	10
5	6.35	20.5	5	10
6	6.35	20.5	5	10
7	6.35	20.5	6	10
8	6.35	20.5	7	10

101B



Ball-point Hex Bits Sechskant Bits Embouts, 6 pans creux







101B (mm)	D (mm)	L (mm)	₫∄ (g)	(pcs.)
3	6.35	25	4	10
4	6.35	25	4	10
5	6.35	25	5	10
6	6.35	25	5	10

Ball point bits have less strength due to the special design. Ball point bits nave less success.

Make sure to use them correctly.

101T (T)







101T (T)	D (mm)	L (mm)	₫∄ (g)	(pcs.)
T 9	6.35	25	4	10
T10	6.35	25	4	10
T15	6.35	25	5	10
T20	6.35	25	5	10
T25	6.35	25	5	10
T27	6.35	25	6	10
T30	6.35	25	6	10







101T (TH)	D (mm)	L (mm)	₫¼ (g)	(pcs.)
T10H	6.35	25	4	10
T15H	6.35	25	4	10
T20H	6.35	25	5	10
T25H	6.35	25	5	10
T27H	6.35	25	6	10
T30H	6.35	25	6	10

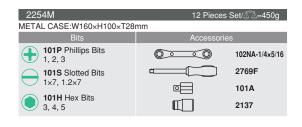
Tamper Resistant TORX® Bits have less strength due to special design. Tamper Resistant Total S...
Make sure to use it correctly.

128H (mm)	D (mm)	L (mm)	₫Д (g)	(pcs.)
3	8	32	11	10
4	8	32	11	10
5	8	32	12	10
6	8	32	12	10
8	8	32	13	10

128T (T)	D (mm)	L (mm)	₫Д (g)	(pcs.)
T10	8	32	9	10
T15	8	32	9	10
T20	8	32	9	10
T25	8	32	10	10
T27	8	32	10	10
T30	8	32	11	10

101A	D (mm)	S (mm)	L (mm)	₫∄ (g)	(pcs.)
	8	6.35	20	8	10











128T TORX® Bits
TORX® Bits
Embouts, TORX®





101A Adaptor Verbindungsstück Adaptateur





1202 Bit Set Bit-Satz



2254M Bit Set Bit-Satz Jeu d'embouts



R810A Bit Set Bit-Satz Jeu d'embouts



R810A	5 Piece	s Set/ὧື⊿=208g
METAL CASE:W130×H65×T20m	ım	
Bits	Accesso	
101P Phillips Bits 1, 2, 3		102NA-1/4×5/16
101S Slotted Bit 1×7		

R810B Bit Set Bit-Satz Jeu d'embouts



R810B

METAL CASE:W130×H65×T20mm

Bits

Accessory

101P Phillips Bits
1, 2, 3

101S Slotted Bit
1×7

128H Hex Bits
3, 4, 5, 6, 8

R810C Bit and Socket Set Bit und Steckschlüssel Satz Jeu de douilles et d'embouts



R810C 12 Pieces Set/\$\instyle{\instyle{\instyle{1}}} = 227g\$

METAL CASE:W130×H65×T20mm

Bits,Sockets Accessories

101P Phillips Bits 1, 2, 3
101S Slotted Bit 1x7
2400M Sockets 5, 6, 7, 8, 9, 10

R810D Bit and Socket Set
Bit und Steckschlüssel Satz



R810D 17 Pieces Set/\$\tilde{\t

R810E Socket Set Steckschlüssel Satz Jeu de clés à douilles

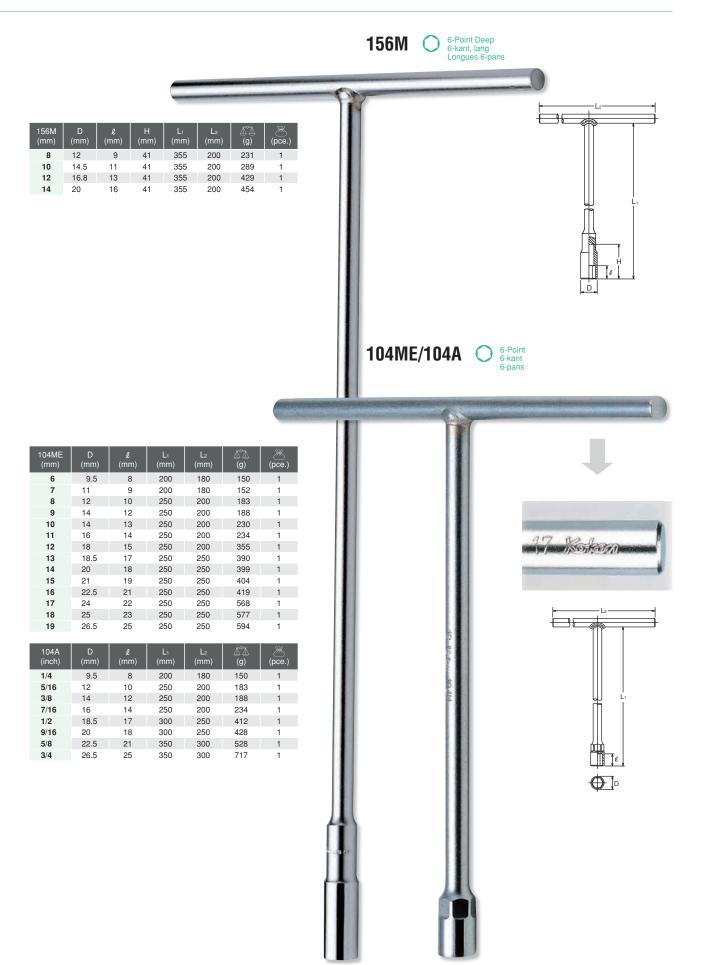




R810E

METAL CASE:W130×H65×T20mm





## 3116M O

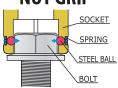




3116M (mm)	D (mm)	ℓ (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	₫Д (g)	(pce.)
10	14.5	8	800	190	796	1
12	17	10.3	800	190	797	1
13	18	11.3	800	190	797	1
14	19.5	11.3	800	190	797	1
15	21	12.8	800	190	799	1
16	22	12.8	800	190	806	1
17	23.6	13.8	800	190	801	1
18	24	13.8	800	190	809	1

124M-600 (mm)	D (mm)	ℓ (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	ДĨД (g)	(pce.)
8(2B)	12	5	600	200	332	1
10(2B)	14.5	6	600	200	334	1
12(2B)	16.8	7	600	200	424	1
13(2B)	18	8	600	200	425	1
14(2B)	19.5	8.5	600	200	527	1
17(2B)	23.3	9.5	600	200	538	1

### **NUT GRIP®**



## **NUT GRIP®**

Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.

Die zwei Kugeln in der 6-kant Öffnung unserer NUT GRIP Steckschlüssel halten die Schraube sicher im Steckschlüssel. Dies erlaubt ein Arbeiten auch an schwer zugänglichen Stellen.

Les 2 billes dans l'ouverture du 6-pans de la douille retiennent l'écrou de manière sûre et efficace.

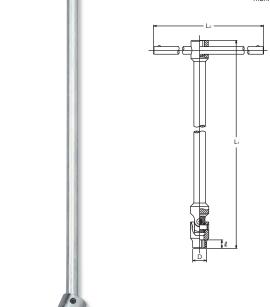
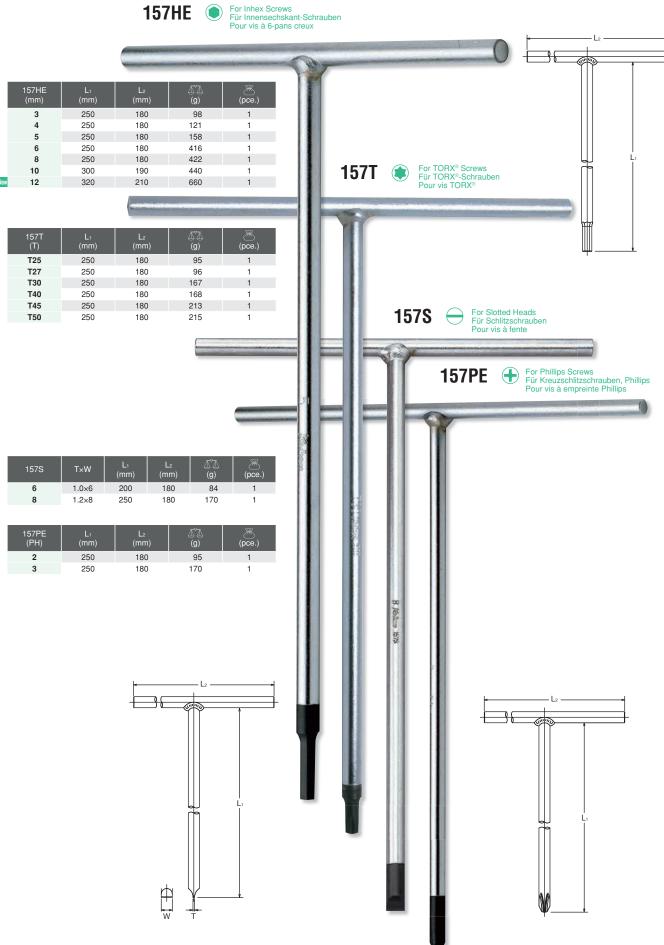




photo: 3116M



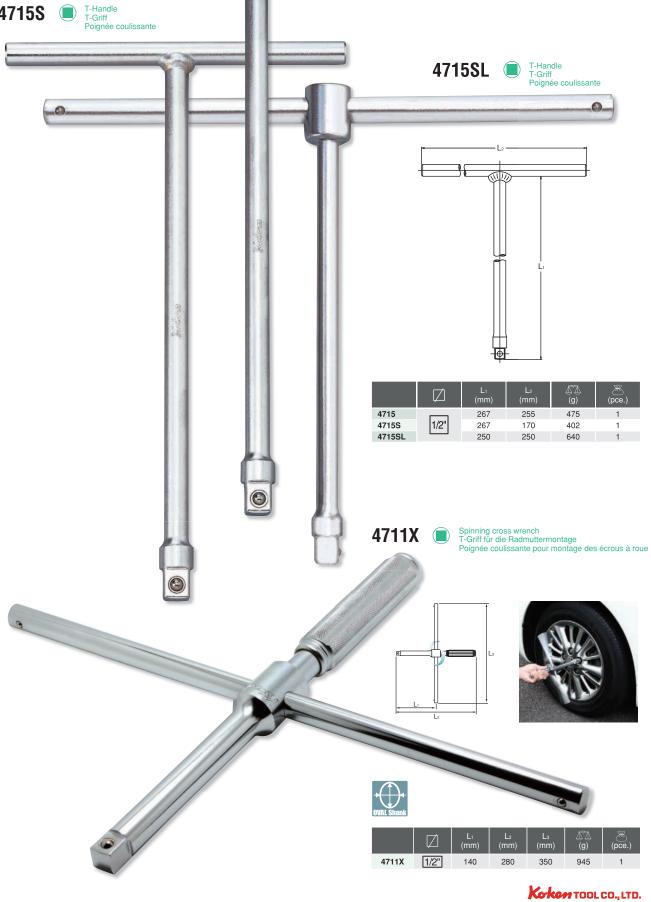
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Koken TOOL CO., LTD.

2715

T-Handle T-Griff Poignée coulissante





T-Handle T-Griff Poignée coulissante

4715

**4715S** 

3112G

Attack Driver Hand-Schlagschrauber Tournevis à frapper



	Ø	L (mm)	₫Д (g)	(pce.)
3112G	3/8"	159	810	1

\* Renewal Kits → 3112RK → P289

	Ø	L (mm)	₫∄ (g)	(pce.)
4112G	1/0"	163	810	1
4112N	1/2	163	730	1

\* Renewal Kits → 4112RK → P289

4112G	Attack Driver Hand-Schlagschrauber Tournevis à frapper

	Lethern	*FEVER'S XXXITIA	
•			
	Park and	1	

	Ø	L (mm)	₫₫ (g)	(pce.)
6112	3/4"	190	1900	1

\* Renewal Kits → 6112RK → P289



Black finished striking head prevents the problem of peeling.

Das geschwärzte Schlagende vermeidet das Abspringen von Chromteilen.

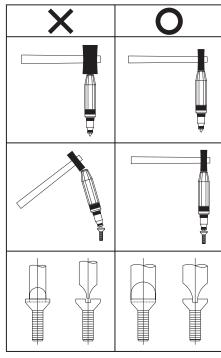
La finition "black finish" de la tête évite l'écaillement dû au chromage.

4112N Attack Driver Hand-Schlagschrauber Tournevis à frapper

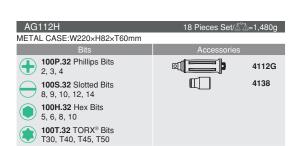


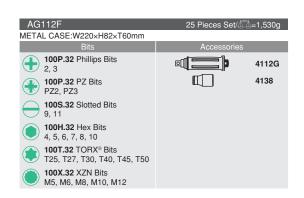
6112 Attack Driver Hand-Schlagschrauber Tournevis à frapper





AG112A	6 Pieces Set/ὧ	∆=1,150g
METAL CASE:W220×H82×T60mm		
Bits	Accessories	
100P.32 Phillips Bits 2, 3		4112G
100S.32 Slotted Bits 9, 11		4138





AN112A	6 Pieces Set/	∑_=1,070g
METAL CASE:W190×H59×T45mm		
Bits	Accessories	S
100P.32 Phillips Bits 2, 3		4112N
100S.32 Slotted Bits 9, 11		4138

AN112C	8 Pieces Set/	∑∆=1,350g
METAL CASE:W220×H82×T60mm		
Bits	Accessorie	s
100P.80 Phillips Bits 1, 2, 3		4112N
100S.80 Slotted Bits 7, 9, 12		4138

# AG112A Attack Driver Set Hand-Schlagschrauber-Satz Jeu de tournevis à frapper



# AG112H Attack Driver Set Hand-Schlagschrauber-Satz Jeu de tournevis à frapper



# AG112F Attack Driver Set Hand-Schlagschrauber-Satz Jeu de tournevis à frapper

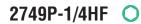


# AN112A Attack Driver Set Hand-Schlagschrauber-Satz Jeu de tournevis à frapper



# AN112C Attack Driver Set Hand-Schlagschrauber-Satz Jeu de tournevis à frapper









H (mm) ₫⁄₫ (g) (pcs.) 2749P-1/4HF 25 12 125 96 10 2774P-1/4HF 25 12 165 133 2

2774P-1/4HF 🔘



Flexible Ratchet, reversible, for Bits 1/4" Gelenk-Knarre, verstellbar, für Bits 1/4" Cliquet á tête articulée pour embouts 1/4"





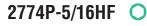
2749P-5/16HF O



Reversible Ratchet, for Bits 5/16" Knarre, verstellbar für Bits 5/16" Cliquet, réversible pour embouts 5/16"



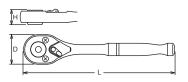
	D (mm)	H (mm)	L (mm)	Д°Д (g)	(pcs.)
2749P-5/16HF	25	14	125	96	10
2774P-5/16HF	25	14	165	133	2



Flexible Ratchet, reversible, for Bits 5/16" Gelenk-Knarre, verstellbar, für Bits 5/16" Cliquet á tête articulée pour embouts 5/16"





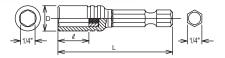


### 180M-50



Bit Holder with Magnet Klingenhalter mit Magnet Porte-embouts avec aimant





	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
180M-50	11	13.5	50	15	10

131P-80 Embouts, PH

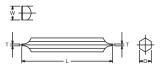
Double ended Bits Doppelseitige Bits Embouts bilatérals



1315-80



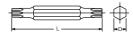




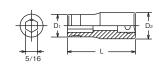
131T-80







Bit Holder, extra deep for 131P-80, 131S-80, 131T-80 Klingenhalter, extra tief für 131P-80, 131S-80, 131T-80 Porte embouts, ouverture longue pour 131P-80, 131S-80, 131T-80







Bit Holder, extra deep for 131P-80, 131S-80, 131T-80 Klingenhalter, extra tief für 131P-80, 131S-80, 131T-80 Porte embouts, ouverture longue pour 131P-80, 131S-80, 131T-80





131P-80

**(+)** 

No.1×No.2

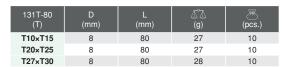
No.2×No.3

No.3×No.3

1 0×7

1.2×8

1.6×9



		D₁ (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)
3141	3/8"	16	18	48	60	10
4141	1/2"	16	22	52	70	10

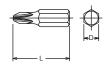


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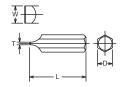


# 108S-25/-39 <del>-</del>



Slotted Bits Schlitz Bits Embouts, fente



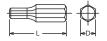


# 108H-25 •



Sechskant Bits Embouts, 6 pans creux

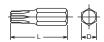




# 108T-25 (T) TORX® Bits TORX® Bits Embouts, TORX®







# 108T-25 (TH) 🔯



Tamper-Resistant TORX® Bits Tamper-Resistant TORX® Bits Embouts TORX®, Tamper-Resistant







108A



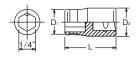
Adaptor Verbindungsstück Adaptateur





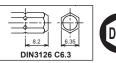
108P-25	D	L		<u> </u>	<b>8</b>
(PH)	(mm)	(mm)		(g)	(pcs.)
1	6.35	25		5	10
2	6.35	25		5	10
3	6.35	25		6	10
108P-32	D	L		₫¹A	æ
(PH)	(mm)	(mm)		(g)	(pcs.)
1	6.35	32		7	10
2	6.35	32		7	10
3	6.35	32		8	10
108P-50	D	L		$\mathbb{Z}\mathbb{Z}$	)A
(PH)	(mm)	(mm)		(g)	(pcs.)
1	6.35	50		10	10
2	6.35	50		11	10
3	6.35	50		11	10
108S-25	T×W	D		<b>L</b> A	寒
1003-25	(mm)	(mm)	(mm)	(g)	(pcs.)
3	0.5×3	6.35	25	3	10
4	0.6×4	6.35	25	3	10
4.5	0.6×4.5	6.35	25	4	10
5 5.5	0.8×5 0.8×5.5	6.35 6.35	25 25	5 5	10 10
6	1.0×6	6.35	25	5	10
8	1.2×8	6.35	25	6	10
	T×W	D	L	$\mathbb{Z}^{\mathbb{Z}}$	無
108S-39	(mm)	(mm)	(mm)	(g)	(pcs.)
3	0.5×3	6.35	39	6	10
4	0.6×4	6.35	39	6	10
4.5	0.6×4.5	6.35	39	6	10
5 5.5	0.8×5 0.8×5.5	6.35 6.35	39 39	7 8	10 10
6	0.8×5.5 1.0×6	6.35	39	9	10
8	1.2×8	6.35	39	12	10
40011.05				<b>₽</b> ▽¬	寒
108H-25 (mm)	D (mm)	L (mm)		Д¯Д (g)	(pcs.)
3	6.35	25		4	10
4	6.35	25		5	10
5	6.35	25		5	10
6	6.35	25		6	10
7 8	6.35 6.35	25 25		7 8	10 10
10	6.35	25		11	10
108H-25		L		$\mathbb{A}^{T}\!\mathbb{A}$	æ
(inch)	D (mm)	(mm)		⊕ ⊕ (g)	(pcs.)
1/8	6.35	25		4	10
9/64	6.35	25		5	10
3/16	6.35	25		5	10
7/32	6.35	25		6	10
1/4	6.35	25		7	10
108T-25	D (mm)	L (mm)		(a) \$\overline{L}\overline{D}\$	(nce )
(T) T10	(mm) 6.35	(mm)		(g) 4	(pcs.)
T15	6.35	25 25		4	10
T20	6.35	25		5	10
T25	6.35	25		6	10
T27	6.35	25		6	10
T30	6.35 6.35	25		6	10
T40	0.33	25		6	10
108T-25	D (mm)	L (mm)		\$\tilde{\Pi}	(nes )
(TH)	(mm)	(mm)		(g)	(pcs.)
T10H T15H	6.35 6.35	25 25		4	10 10
T20H	6.35	25		5	10
T25H	6.35	25		6	10
T27H	6.35	25		6	10
T30H	6.35	25		6	10
T40H	6.35	25		6	10
1004.05	_			<b>5</b> 7	寒
	D	L		₩₩	
108A-25	(mm)	(mm)		(g)	(pcs.)
108A-25					



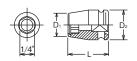


		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)
2137	1/4"	12	12	22.5	13	10
3137	3/8"	13	16.5	30	30	10
4137	1/2"	13	22	38	53	10

For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts







		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
12139	1/4"	11	13	26	15	10	*1
13139	3/8"	11	19	30	32	10	*2
14139	1/2"	11	25	38	62	10	*3

- \*1 Pin/O-Ring=1200A/B
- \*2 C-Ring=1301C,Pin/O-Ring=1301A/B \*3 C-Ring=1401C,Pin/O-Ring=1401A/B
- For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts





D6.3

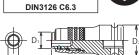
	Ø	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	ℂ
13142-D6.3	3/8"	16	19	45	60	10	*1
14142-D6 3	1/2"	16	25	55	97	10	*2

\*1 C-Ring=1301C,Pin/O-Ring=1301A/B \*2 C-Ring=1401C,Pin/O-Ring=1401A/B

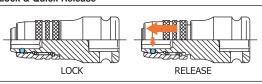
For DIN3126 C6.3 Bits

Für DIN3126 C6.3 Bits

8.2 Pour DIN3126 C6.3 Embouts



### Lock & Quick Release



Bit Holder Klingenhalter Porte-embouts 2137



Bit Holder Klingenhalter Porte-embouts 3137



Bit Holder 4137 Klingenhalter Porte-embouts



Impact Bit Holder Impact Klingenhalter Porte embouts Impact 12139



Impact Bit Holder 13139 Impact Bit Holder Impact Klingenhalter Porte embouts Impact



Impact Bit Holder 14139 Impact Klingenhalter
Porte embouts Impact



Impact Bit Holder 13142-D6.3 O Impact Klingenhalter Porte embouts Impact



Impact Bit Holder Impact Klingenhalter Porte embouts Impact 14142-D6.3 O



# DIN3126 C8 • 5/16"

# 





		L =D*	
Mary III	The state of the s		1

100P-32 (PH)	D (mm)	L (mm)	₫₫ (g)	(pcs.)
1	8	32	11	10
2	8	32	11	10
3	8	32	12	10
4	8	32	12	10

100P-80 (PH)	D (mm)	L (mm)	(g)	(pcs.)
1	8	80	30	10
2	8	80	30	10
3	8	80	31	10
4	8	80	32	10

100P-125 (PH)	D (mm)	L (mm)	₫Д (g)	(pcs.)
2	8	125	48	10
3	8	125	49	10

# 100P-32 (PZ) **★**



PZ Bits PZ Bits Embouts, PZ





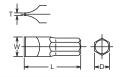
100P-32 (PZ)	D (mm)	L (mm)	Д¯Д (g)	(pcs.)
PZ2	8	32	10	10
PZ3	8	32	11	10

# 100S-32/-80 $\ominus$



Slotted Bits Schlitz Bits Embouts, fente







100S-32	T×W (mm)	D (mm)	L (mm)	₫∄ (g)	(pcs.)
6	1 × 6	8	32	10	10
7	1 × 7	8	32	11	10
8	1.2× 8	8	32	12	10
9	1.6× 9	8	32	12	10
10	1.6×10	8	32	13	10
11	1.6×11	8	32	15	10
12	2 ×12	8	32	18	10
14	2 ×14	8	32	21	10

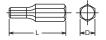
100S-80	T×W (mm)	D (mm)	L (mm)	₫₫ (g)	(pcs.)
6	1 × 6	8	80	29	10
7	1 × 7	8	80	30	10
8	1.2× 8	8	80	31	10
9	1.6× 9	8	80	32	10
10	1.6×10	8	80	33	10
11	1.6×11	8	80	33	10
12	2 ×12	8	80	34	10
14	2 ×14	8	80	37	10

### 100H-32



Hex Bits Sechskant Bits Embouts, 6 pans creux





### 100H-32 (mm) D (mm) ₫₫ (g) 23

# 100T-32 (T)



TORX® Bits TORX® Bits Embouts, TORX®

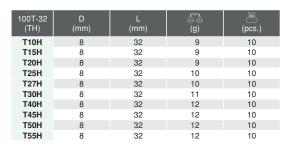




100T-32 (T)	D (mm)	L (mm)	Д¯Д (g)	(pcs.)
T10	8	32	9	10
T15	8	32	9	10
T20	8	32	9	10
T25	8	32	10	10
T27	8	32	10	10
T30	8	32	11	10
T40	8	32	12	10
T45	8	32	12	10
T50	8	32	12	10
T55	8	32	12	10

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TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

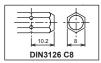
# DIN3126 C8



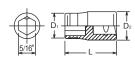
100X-32	D (mm)	L (mm)	Д¯Д (g)	(pcs.)
M 5	8	32	10	10
M 6	8	32	11	10
M 8	8	32	12	10
M10	8	32	16	10
M12	8	32	19	10

		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫∄ (g)	(pcs.)
2138	1/4"	16	16	26	32	10
3138	3/8"	16	18	38	55	10
4138	1/2"	16	22	38	62	10

For DIN3126 C8 Bits Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts



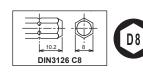


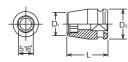


		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	Д́Д (g)	(pcs.)	(D)
12140	1/4"	14	13	26	15	10	*1
13140	3/8"	14	19	30	32	10	*2
14140	1/2"	14	25	38	62	10	*3

- \*1 Pin/O-Ring=1200A/B
- \*2 C-Ring=1301C,Pin/O-Ring=1301A/B \*3 C-Ring=1401C,Pin/O-Ring=1401A/B
- For DIN3126 C8 Bits

Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts



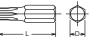


# 100T-32 (TH)



Tamper-Resistant TORX® Bits Tamper-Resistant TORX® Bits Embouts TORX®, Tamper-Resistant









Tamper Resistant TORX® Bits have less strength due to special design. Make sure to use it correctly.

# 100X-32 (XZN)



XZN Bits XZN Bits Embouts, XZN





2138



Bit Holder Klingenhalter Porte-embouts



3138



**Bit Holder** Klingenhalter Porte-embouts



4138



Bit Holder Klingenhalter Porte-embouts



12140



Impact Bit Holder Impact Klingenhalter Porte embouts Impact



13140



Impact Bit Holder Impact Klingenhalter
Porte embouts Impact



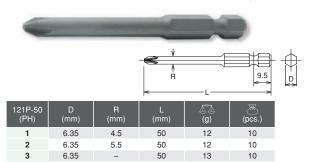
14140



Impact Bit Holder Impact Klingenhalter Porte embouts Impact

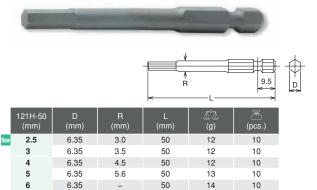


PH Bits PH Bits Embouts, PH 121P-50/-70/-100/-150 **+** 



121H-50/-70/-100/-150





121T-50/-70/-100/-150 (T) 🕏





	121T-50 (T)	D (mm)	R (mm)	L (mm)	₫Д (g)	(pcs.)
New	T10	6.35	3.0	50	12	10
New	T15	6.35	3.5	50	12	10
	T20	6.35	4.1	50	12	10
	T25	6.35	4.6	50	12	10
	T27	6.35	5.2	50	13	10
	T30	6.35	5.7	50	13	10
	T40	6.35	-	50	14	10



P 9.5

3 6.35 4.0 70 15 10 4 6.35 4.5 70 15 10 6 4 6.35 4.5 70 15 10 10 6 6 6.35 - 70 18 10 10 121H-100							
(PH) (mm) (mm) (mm) (g) (pcs.)  1							
(PH) (mm) (mm) (mm) (g) (pcs.)  1		121P-70	D	R		π <sup>∨</sup> π	深
1   6.35   4.5   70   15   10   10   2   6.35   5.5   70   15   10   10   10   10   10   10   1							
2 6.35 5.5 70 15 10  121P-100	- 1						
3 6.35 - 70 16 10  121P-100 D R L							
121P-100							
(PH) (mm) (mm) (mm) (g) (pos.)  1			0.55		70	10	
1   6.35   4.5   100   23   10   10   2   3   10   3   10   3   10   24   10   10   24   10   10   10   10   10   10   10   1			D	R	L	<b>E</b> Z	$\mathbb{Z}$
2 6.35 5.5 100 23 10  121P-150 D R L		(PH)	(mm)	(mm)	(mm)	(g)	(pcs.)
3 6.35 - 100 24 10  121P-150		1	6.35	4.5	100	23	10
3 6.35 - 100 24 10  121P-150 (PH) (mm) (mm) (mm) (g) (pcs.)  1 6.35 4.5 150 30 10  2 6.35 5.5 150 35 10  3 6.35 - 150 36 10  121H-70 D R L S S S S S S S S S S S S S S S S S S		2	6.35	5.5	100	23	10
121P-150		3			100	24	10
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(mm)		3	6.35	-	150	36	10
(mm)			_			<b>.</b> -⊽-3	W/Z
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3 6.35 4.0 70 15 10 4 6.35 4.5 70 15 10 6 6.35 4.5 70 15 10 6 6.35 5.6 70 16 10 10 6 6.35 - 70 18 10 121H-100 D R R L (pcs.)  121H-100 D R R L (pcs.)  3 6.35 4.0 100 23 10 23 10 4 6.35 4.5 100 24 10 6 6.35 - 100 26 10 10 121H-150 D R L (pcs.)  (mm) (mm) (mm) (mm) (mm) (mm) (g) (pcs.)  121H-150 D R R L (pcs.)  (mm) (mm) (mm) (mm) (g) (pcs.)  121H-150 D R R L (pcs.)  (mm) (mm) (mm) (mm) (g) (pcs.)  121H-150 D R R L (pcs.)  (mm) (mm) (mm) (mm) (g) (pcs.)  121T-70 D R L (pcs.)  121T-100 D R L (pcs.)		(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)
4   6.35   4.5   70   15   10   5   6.35   5.6   70   16   10   10   121H-100   D   R   L   (pcs.)   10   121H-100   D   R   L   (pcs.)   10   10   23   10   10   10   23   10   10   23   10   10   23   10   24   10   10   25   10   26   10   10   26   10   10   27   28   28   28   28   28   28   28	New	2.5	6.35	4.0	70	15	10
121H-100		3	6.35	4.0	70	15	10
121H-100		4	6.35	4.5	70	15	10
121H-100		5	6.35	5.6	70	16	10
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(T) (mm) (mm) (mm) (g) (pcs.)  T15 6.35 4.0 150 37 10  T20 6.35 4.5 150 37 10  T25 6.35 5.0 150 37 10  T27 6.35 5.6 150 37 10  T30 6.35 6.0 150 38 10  T40 6.35 − 150 39 10   121T-70 D R L (mm) (mm) (g) (pcs.)  T20H 6.35 4.6 70 16 10  T27H 6.35 5.2 70 17 10  T30H 6.35 − 70 18 10  121T-100 D R L (mm) (mm) (g) (pcs.)  T20H 6.35 4.6 70 16 10  T27H 6.35 5.2 70 17 10  T30H 6.35 5.7 70 17 10  T40H 6.35 − 70 18 10  121T-100 D R L (mm) (mm) (g) (pcs.)  T20H 6.35 4.1 100 24 10  T25H 6.35 4.6 100 24 10  T25H 6.35 5.2 100 24 10  T27H 6.35 5.2 100 24 10  T27H 6.35 5.2 100 25 10  T40H 6.35 − 100 26 10		121T-150	D	R	L	$\mathbb{A}^{\mathbb{Z}}$	<u> </u>
T15 6.35 4.0 150 37 10  T20 6.35 4.5 150 37 10  T25 6.35 5.0 150 37 10  T27 6.35 5.6 150 37 10  T30 6.35 6.0 150 37 10  T40 6.35 - 150 39 10   121T-70 D R L (mm) (g) (pcs.)  T29H 6.35 4.6 70 16 10  T27H 6.35 5.2 70 17 10  T30H 6.35 - 70 18 10  121T-100 D R L (mm) (mm) (g) (pcs.)  T20H 6.35 4.1 100 24 10  T25H 6.35 4.6 100 24 10  T25H 6.35 4.6 100 24 10  T25H 6.35 4.6 100 24 10  T27H 6.35 5.2 100 24 10  T30H 6.35 - 100 25 10  T40H 6.35 - 100 26 10						5.5	
T20       6.35       4.5       150       37       10         T25       6.35       5.0       150       37       10         T27       6.35       5.6       150       37       10         T30       6.35       6.0       150       38       10         T40       6.35       -       150       39       10         121T-70 (TH) (mm) (mm) (mm) (mm) (g) (pcs.)         T20H (6.35       4.1       70       16       10         T25H (6.35) 4.6       70       16       10         T27H (6.35) 5.2       70       17       10         T30H (6.35) 5.7       70       17       10         T40H (6.35) -       70       18       10         121T-100 D R (mm) (mm) (mm) (g) (pcs.)         T20H (6.35) 4.1       100       24       10         T25H (6.35) 4.6       100       24       10         T25H (6.35) 5.2       100       24       10         T30H (6.35) 5.7       100       25       10         T40H (6.35) -       100       26       10         Tamper Resistant TORX® Bits have less strength due to special design.	New		6.35	4.0	150		10
T25 6.35 5.0 150 37 10  T27 6.35 5.6 150 37 10  T30 6.35 6.0 150 38 10  T40 6.35 − 150 39 10   121T-70 D R L (mm) (mm) (g) (pcs.)  T20H 6.35 4.6 70 16 10  T27H 6.35 5.2 70 17 10  T30H 6.35 − 70 18 10  121T-100 D R L (mm) (mm) (g) (pcs.)  T20H 6.35 4.1 100 24 10  T25H 6.35 4.6 100 24 10  T25H 6.35 4.6 100 24 10  T27H 6.35 5.2 100 24 10  T27H 6.35 5.2 100 24 10  T27H 6.35 5.7 70 17  T30H 6.35 5.7 70 17  T30H 6.35 5.7 70 17  T30H 6.35 5.7 70 17  T40H 6.35 − 100 24 10  T27H 6.35 5.2 100 24 10  T27H 6.35 5.2 100 25 10  T40H 6.35 − 100 26 10							
T27       6.35       5.6       150       37       10         T30       6.35       6.0       150       38       10         T40       6.35       -       150       39       10         121T-70 (TH)       D R (mm) (mm) (mm) (g)       (pcs.)         T20H 6.35       4.1       70       16       10         T25H 6.35       4.6       70       16       10         T27H 6.35       5.2       70       17       10         T30H 6.35       5.7       70       17       10         T40H 6.35       -       70       18       10         121T-100 (TH) (mm) (mm) (mm) (g) (pcs.)       (pcs.)         T20H 6.35       4.1       100       24       10         T25H 6.35       4.6       100       24       10         T27H 6.35       5.2       100       24       10         T30H 6.35       5.7       100       25       10         T40H 6.35       -       100       26       10         Tamper Resistant TORX® Bits have less strength due to special design.							
T30     6.35     6.0     150     38     10       T40     6.35     -     150     39     10       121T-70     D     R     L     (mm)     (pcs.)       T20H     6.35     4.1     70     16     10       T25H     6.35     4.6     70     16     10       T27H     6.35     5.2     70     17     10       T30H     6.35     5.7     70     17     10       T40H     6.35     -     70     18     10       121T-100     D     R     L     (mm)     (pcs.)       T20H     6.35     4.1     100     24     10       T25H     6.35     4.6     100     24     10       T27H     6.35     5.2     100     24     10       T30H     6.35     5.7     100     25     10       T40H     6.35     -     100     26     10							
T40     6.35     −     150     39     10       121T-70 (TH) (mm) (mm) (mm) (mm) (mm) (mm) (g) (pcs.)     R L (pcs.)     Cpcs.)       T20H 6.35 4.1 70 16 10     10       T25H 6.35 4.6 70 16 10     10       T27H 6.35 5.2 70 17 10     17       T30H 6.35 5.7 70 17 10     10       T40H 6.35 − 70 18 10     10       121T-100 D R L (mm) (mm) (mm) (g) (pcs.)     (pcs.)       T20H 6.35 4.1 100 24 10     10       T25H 6.35 4.6 100 24 10     10       T27H 6.35 5.2 100 24 10     10       T30H 6.35 5.7 100 25 10     10       T40H 6.35 − 100 26 10     10       Tamper Resistant TORX® Bits have less strength due to special design.							
121T-70 (TH)         D (mm)         R (mm)         L (mm)         (g)         (pcs.)           T20H         6.35         4.1         70         16         10           T25H         6.35         4.6         70         16         10           T27H         6.35         5.2         70         17         10           T30H         6.35         5.7         70         17         10           T40H         6.35         -         70         18         10           121T-100 (TH)         D (mm)         R (mm)         L (mm)         (g)         (pcs.)           T20H         6.35         4.1         100         24         10           T25H         6.35         4.6         100         24         10           T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         -         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.							
(TH) (mm) (mm) (mm) (g) (pos.)  T20H 6.35 4.1 70 16 10  T25H 6.35 4.6 70 16 10  T27H 6.35 5.2 70 17 10  T30H 6.35 5.7 70 17 10  T21T-100 D R L (mm) (mm) (g) (pos.)  T20H 6.35 4.1 100 24 10  T25H 6.35 4.6 100 24 10  T27H 6.35 5.2 100 24 10  T30H 6.35 5.7 100 25 10  T40H 6.35 - 100 26 10  Tamper Resistant TORX® Bits have less strength due to special design.							
T20H         6.35         4.1         70         16         10           T25H         6.35         4.6         70         16         10           T27H         6.35         5.2         70         17         10           T30H         6.35         5.7         70         17         10           T40H         6.35         −         70         18         10           121T-100 (TH)         D (mm)         R (mm)         L (mm)         (g)         (pcs.)           T20H         6.35         4.1         100         24         10           T25H         6.35         4.6         100         24         10           T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         -         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.							
T25H       6.35       4.6       70       16       10         T27H       6.35       5.2       70       17       10         T30H       6.35       5.7       70       17       10         T40H       6.35       −       70       18       10         121T-100 (TH) (mm) (mm) (mm) (g) (pcs.)       (pcs.)       (pcs.)         T20H       6.35       4.1       100       24       10         T25H       6.35       4.6       100       24       10         T27H       6.35       5.2       100       24       10         T30H       6.35       5.7       100       25       10         T40H       6.35       −       100       26       10         Tamper Resistant TORX® Bits have less strength due to special design.	Į	(TH)	(mm)	(mm)	(mm)	(g)	(pcs.)
T27H         6.35         5.2         70         17         10           T30H         6.35         5.7         70         17         10           T40H         6.35         −         70         18         10           121T-100 (TH)         D (mm)         R (mm)         (g)         (pcs.)           T20H         6.35         4.1         100         24         10           T25H         6.35         4.6         100         24         10           T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         −         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.		T20H	6.35	4.1	70	16	10
T27H         6.35         5.2         70         17         10           T30H         6.35         5.7         70         17         10           T40H         6.35         −         70         18         10           121T-100 (TH)         D (mm)         R (mm)         (g)         (pcs.)           T20H         6.35         4.1         100         24         10           T25H         6.35         4.6         100         24         10           T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         −         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.		T25H					
T30H         6.35         5.7         70         17         10           T40H         6.35         -         70         18         10           121T-100 (TH)         D (mm)         R (mm)         L (g)         (pcs.)           T20H         6.35         4.1         100         24         10           T25H         6.35         4.6         100         24         10           T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         -         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.							
T40H         6.35         -         70         18         10           121T-100 (TH)         D (mm)         R (mm)         L (g)         (pcs.)           T20H         6.35         4.1         100         24         10           T25H         6.35         4.6         100         24         10           T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         -         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.							
121T-100 (TH)         D (mm)         R (mm)         L (mm)         (g) (pcs.)           T20H         6.35         4.1         100         24         10           T25H         6.35         4.6         100         24         10           T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         -         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.							
T20H 6.35 4.1 100 24 10  T25H 6.35 4.6 100 24 10  T27H 6.35 5.2 100 24 10  T30H 6.35 5.7 100 25 10  T40H 6.35 - 100 26 10  Tamper Resistant TORX® Bits have less strength due to special design.	į						
T20H     6.35     4.1     100     24     10       T25H     6.35     4.6     100     24     10       T27H     6.35     5.2     100     24     10       T30H     6.35     5.7     100     25     10       T40H     6.35     −     100     26     10       Tamper Resistant TORX® Bits have less strength due to special design.							
T25H     6.35     4.6     100     24     10       T27H     6.35     5.2     100     24     10       T30H     6.35     5.7     100     25     10       T40H     6.35     −     100     26     10       Tamper Resistant TORX® Bits have less strength due to special design.	Į						
T27H         6.35         5.2         100         24         10           T30H         6.35         5.7         100         25         10           T40H         6.35         −         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.							
T30H         6.35         5.7         100         25         10           T40H         6.35         −         100         26         10           Tamper Resistant TORX® Bits have less strength due to special design.							
T40H 6.35 – 100 26 10  Tamper Resistant TORX® Bits have less strength due to special design.							
Tamper Resistant TORX® Bits have less strength due to special design.		T30H	6.35	5.7	100	25	10
		T40H	6.35	-	100	26	10
Make sure to use it correctly.					ss strength due	to special design	gn.

Make sure to use it correctly.

121T-50/-70 (IP)		TORX PLUS® Bits TORX PLUS® Bits Embouts TORX PLUS®
N 9.5		
123P-75/-100 +	Doppe	e ended Bits, Phillips elseitige bits, Phillips uts double face, Phillips

•1/4"

os hillips



123PT-75/-100





Impact Bit Holder Impact Klingenhalter Porte embouts Impact 12137E 13137E 14137E

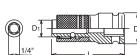






12142-F6.3 13142-F6.3 14142-F6.3



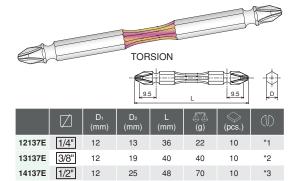






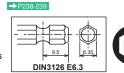


123P-75	D (mm)	L (mm)	Д^Д (g)	(pcs.)
1	6.35	75	16	10
2	6.35	75	16	10
3	6.35	75	17	10
123P-100	D (mm)	L (mm)	<b>△</b>	(pcs.)
1	6.35	100	23	10
2	6.35	100	23	10
3	6.35	100	24	10
123PT (PH)	D (mm)	L (mm)	<b>₫</b> ∄ (g)	(pcs.)
2	6.35	75	18	10
2	6.35	100	24	10



- \*1 Pin/O-Ring=1200A/B
- \*2 C-Ring=1301C, Pin/O-Ring=1301A/B \*3 C-Ring=1401C, Pin/O-Ring=1401A/B

For DIN3126 E6.3 Bits Für DIN3126 F6 3 Bits Pour DIN3126 E6.3 Embouts





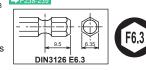
12137E, 13137E and 14147E can be used with various 1/4" bits, DIN 3126-C6.3, DIN 3126-E6.3 and Double ended type.

Die neuen Bithalter können für alle 1/4" Bits DIN 3126-C6.3, DIN 3126-E6.3 und für doppelseitige Bits verwendet werden.

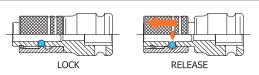
Ces nouveaux porte embouts peuvent être utilisés avec tous les embouts 1/4" DIN 3126 E-6.3 et DIN 3126 C6.3

		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	Д́Д (g)	(pcs.)	W
12142-F6.3	1/4"	16.5	13	36	22	10	*1
13142-F6.3	3/8"	16.5	19	45	60	10	*2
14142-F6.3	1/2"	16.5	25	55	100	10	*3

- \*1 Pin/O-Ring=1200A/B
- \*2 C-Ring=1301C, Pin/O-Ring=1301A/B \*3 C-Ring=1401C, Pin/O-Ring=1401A/B
- For DIN3126 E6.3 Bits Für DIN3126 E6.3 Bits Pour DIN3126 E6.3 Embouts



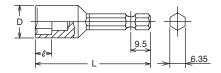




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TORYMON: est une marque déposée de Acument Intellectual Properties, LLC.

# 113 Nut Setters Steckschlüssel Klingen Embouts pour écrous





113 (E)



Nut Setters, TORX® Steckschlüssel Klingen, TORX® Embouts pour écrous, TORX®



113-75/-100/-150/-200/-250



Nut Setters Steckschlüssel Klingen Embouts pour écrous 1/2



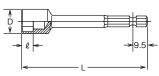
113-75 (mm)	D (mm)	لا (mm)	L (mm)	(g)	(pcs.)
7	11.5	5	75	31	10
8	12.7	6	75	32	10
10	14.5	7	75	35	10
12	17	8	75	42	10
13	18	8	75	41	10
14	19	9	75	43	10

113-150 (mm)	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
7	11.5	5	150	59	10
8	12.7	6	150	60	10
10	14.5	7	150	64	10
12	17	8	150	70	10
13	18	8	150	76	10
14	19	9	150	78	10

113-250 (mm)	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
7	11.5	5	250	99	10
8	12.7	6	250	100	10
10	14.5	7	250	105	10
12	17	8	250	113	10
13	18	8	250	114	10
14	19	9	250	119	10

(mm) D (mm) ℓ (mm) 5.5 14.2 (inch) 1/4 5/16 3/8 14.2 

113 (E)	D (mm)	ل (mm)	L (mm)	₫₫ (g)	(pcs.)
E 4	6.1	4.5	50	12	10
E 5	7.5	4.5	50	15	10
E 6	8.3	5.0	50	17	10
E 7	8.8	5.8	50	18	10
E 8	10.1	6.6	50	19	10
F10	12	7.4	50	20	10



113-100 (mm)	D (mm)	ل (mm)	L (mm)	₫Д (g)	∭ (pcs.)
7	11.5	5	100	40	10
8	12.7	6	100	41	10
10	14.5	7	100	100 45	10
12	17	8	100	52	10
13	18	8	100	51	10
14	19	9	100	53	10
113-200 (mm)	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)

113-200 (mm)	D (mm)	ل (mm)	L (mm)	<b>₽</b> 7 (g)	(pcs.)
7	11.5	5	200	78	10
8	12.7	6	200	79	10
10	14.5	7	200	83	10
12	17	8	200	91	10
13	18	8	200	93	10
14	19	9	200	95	10





113UN-100 (mm)	D (mm)	لا (mm)	L (mm)	₫∄ (g)	(pcs.)
8	13	7	100	50	10
10	15	8	100	53	10
12	17	10	100	56	10
13	18	10	100	65	10
14	19.2	10	100	67	10
113UN-150 (mm)	D (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)
8	13	7	150	65	10
10	15	8	150	70	10
12	17	10	150	77	10
13	18	10	150	92	10
14	19.2	10	150	92	10
113UN-200 (mm)	D (mm)	لا (mm)	L (mm)	₫∄ (g)	(pcs.)
8	13	7	200	75	10
10	15	8	200	87	10
12	17	10	200	98	10
13	18	10	200	116	10
14	19.2	10	200	116	10

113-50 (mm)	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
7(2B)	11	5	50	20	10
8(2B)	12	6	50	21	10
10(2B)	14.2	7	50	26	10
13(2B)	18	8	50	31	10

113-50	D	l	L	₫Д	(pcs.)
(inch)	(mm)	(mm)	(mm)	(g)	
3/8(2R)	1/1.2	7	50	26	10

115 (mm)	D (mm)	ل (mm)	L (mm)	₫∄ (g)	∭ (pcs.)
5.5	9	2.1	50	15	10
6	10	2.4	50	17	10
7	11	2.8	50	19	10
8	12	3.5	50	20	10
10	14.2	4.2	50	29	10
12	17	5.6	50	40	10
13	18	6	50	50	10
14	19	6.4	50	60	10

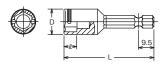
115 (inch)	D (mm)	ℓ (mm)	L (mm)	₫¼ (g)	∭ (pcs.)
1/4	10	2.4	50	17	10
5/16	12	3.5	50	20	10
3/8	14.2	4.2	50	29	10
1/2	18	6	50	50	10

# 113-50 (2B)



Nut Setters, with 2 Balls Steckschlüssel Klingen, mit 2-facher Kugelhalterung Douilles à billes de retenue Nut Grip®



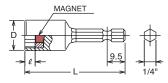


### 115



Nut Setters with Magnet Steckschlüssel Klingen mit Magnet Embouts avec aimant pour écrous

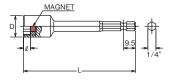


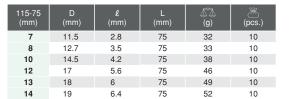


# 115-75/-100/-150/-200/-250



Nut Setters with Magnet Steckschlüssel Klingen mit Magnet Embouts avec aimant pour écrous





115-150 (mm)	D (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
7	11.5	2.8	150	60	10
8	12.7	3.5	150	61	10
10	14.5	4.2	150	68	10
12	17	5.6	150	77	10
13	18	6	150	82	10
14	19	6.4	150	85	10

115-250 (mm)	D (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
7	11.5	2.8	250	101	10
8	12.7	3.5	250	103	10
10	14.5	4.2	250	110	10
12	17	5.6	250	118	10
13	18	6	250	122	10
14	19	6.4	250	124	10

115-100 (mm)	D (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
7	11.5	2.8	100	41	10
8	12.7	3.5	100	42	10
10	14.5	4.2	100	50	10
12	17	5.6	100	58	10
13	18	6	100	62	10
14	19	6.4	100	65	10

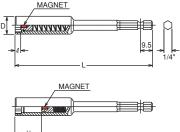
115-200 (mm)	D (mm)	ل (mm)	L (mm)	₫₫ (g)	(pcs.)
7	11.5	2.8	200	79	10
8	12.7	3.5	200	80	10
10	14.5	4.2	200	88	10
12	17	5.6	200	97	10
13	18	6	200	102	10
14	19	6.4	200	105	10

# 115G-75/-100/-150/-200 〇



Nut Setters with sliding Magnet Steckschlüssel Klingen mit versenkbarem Magnet Embouts avec aimant, glissant pour écrous



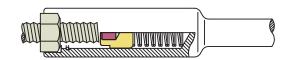


115G-75 (mm)	D (mm)	ل (mm)	H (mm)	L (mm)	₫'∄ (g)	(pcs.)
7	11.5	3.5	26	75	34	10
8	12.7	4	26	75	41	10
10	14.5	4.5	26	75	48	10
12	17	6	26	75	65	10
13	18	6.5	25	75	70	10
14	19	7	24	75	73	10

115G-100 (mm)	D (mm)	ل (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
7	11.5	3.5	26	100	51	10
8	12.7	4	26	100	51	10
10	14.5	4.5	26	100	57	10
12	17	6	26	100	77	10
13	18	6.5	25	100	80	10
14	19	7	24	100	82	10

115G-150 (mm)	D (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
7	11.5	3.5	26	150	67	10
8	12.7	4	26	150	70	10
10	14.5	4.5	26	150	77	10
12	17	6	26	150	95	10
13	18	6.5	25	150	100	10
14	19	7	24	150	105	10

115G-20 (mm)	00 D (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
7	11.5	3.5	26	200	86	10
8	12.7	4	26	200	89	10
10	14.5	4.5	26	200	96	10
12	17	6	26	200	119	10
13	18	6.5	25	200	125	10
14	19	7	24	200	128	10

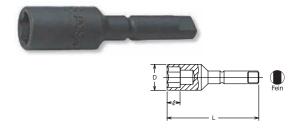


Sliding magnet system provides bolt clearance and magnetic function at the same time. The item 115G is mainly

Die Steckschlüsselklinge mit versenkbarem Magnet bietet die Funktion eines Haltemagneten und genügend Freiraum für überstehende Bolzen. Dieses Werkzeug eignet sich vor allem für Montagearbeiten.

L'embout avec aimant glissant offre une fonction d'aimant et laisse assez d'espace pour des goujons surmontés. L'objet 115G a été conçu spécialement pour le travail d'assemblage.

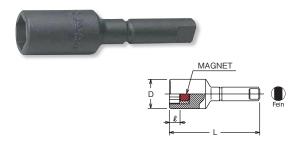
### Nut Setters 118 Steckschlüssel Klingen Embouts pour écrous



118 (mm)	D (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)
5.5	9	4	50	16	10
6	10	5	50	19	10
7	11	5	50	21	10
8	12	6	50	21	10
10	14.2	7	50	34	10
12	17	8	50	41	10
13	18	8	50	46	10

118 (inch)	D (mm)	لا (mm)	L (mm)	₫Д (g)	(pcs.)
1/4	10	5	50	19	10
5/16	12	6	50	21	10
3/8	14.2	7	50	34	10
1/2	18	8	50	46	10

# Nut Setters with Magnet Steckschlüssel Klingen mit Magnet Embouts avec aimant pour écrous 119



119 (mm)	D (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)
5.5	9	2.1	50	17	10
6	10	2.4	50	20	10
7	11	2.8	50	22	10
8	12	3.5	50	23	10
10	14.2	4.2	50	30	10
12	17	5.6	50	42	10
13	18	6	50	52	10

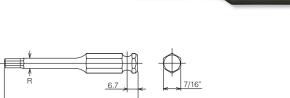
119 (inch)	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
1/4	10	1.8	50	20	10
5/16	12	3.5	50	23	10
3/8	14.2	4.2	50	30	10

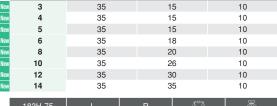
# 183H-35/-75/-150











₫7 (g)

183H-35 (mm)

	183H-75 (mm)	L (mm)	R (mm)	Д Д (g)	(pcs.)
New	3	75	6.0	48	10
New	4	75	6.0	48	10
New	5	75	6.5	49	10
New	6	75	7.5	51	10
New	8	75	9.5	52	10
New	10	75	_	57	10
New	12	75	-	65	10
New	14	75	-	79	10

	183H-150 (mm)	L (mm)	R (mm)	₫¼ (g)	(pcs.)
New	4	150	6.0	111	10
New	5	150	6.5	112	10
New	6	150	7.5	114	10
New	8	150	9.5	118	10
New	10	150	-	124	10
New	12	150	_	131	10

	183T-35 (T)	L (mm)	(g)	(pcs.)
New	T30	35	18	10
New	T40	35	20	10
New	T45	35	22	10
New	T50	35	26	10
New	T55	35	30	10
New	T60	35	38	10

	183T-75 (T)	L (mm)	R (mm)	ДД (g)	(pcs.)
New	T30	75	6.0	48	10
New	T40	75	6.9	49	10
New	T45	75	8.0	51	10
New	T50	75	9.0	52	10
New	T55	75	11.4	57	10
New	T60	75	13.5	67	10

	183T-150 (T)	L (mm)	R (mm)	₫∄ (g)	(pcs.)
New	T30	150	6.0	113	10
New	T40	150	6.9	114	10
New	T45	150	8.0	116	10
New	T50	150	9.0	118	10
New	T55	150	11.4	124	10

	183T-35 (IP)	L (mm)	₫∄ (g)	(pcs.)
New	30IP	35	18	10
New	40IP	35	20	10
New	45IP	35	22	10
New	50IP	35	26	10
New	55IP	35	30	10
New	60IP	35	38	10
	100T 7F			

	183T-75 (IP)	L (mm)	R (mm)	₫∄ (g)	(pcs.)
New	30IP	75	6.0	48	10
New	40IP	75	6.8	49	10
New	45IP	75	8.0	51	10
New	50IP	75	9.0	52	10
New	55IP	75	11.4	57	10
New	60IP	75	13.5	67	10

183T-35/-75/-150(T)











TORXPLUS® Bits TORXPLUS® Bits Embouts TORXPLUS®





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# DIN3126 E11.2 **7/16**"

# 183X-35/-75/-150(XZN)







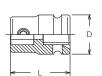
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			$\forall$
R		6.7	< > 7/16
<del>K</del>	- L	<del>&gt;</del>	

13134 14134 16134











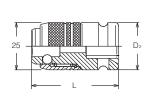


13142-F11.2 O 14142-F11.2

Impact Bit Holder (Quick Release) Impact Klingenhalter (Quick Release) Porte embouts Impact (Quick Release)







	183X-35 (XZN)	L (mm)	₫ <u>¯</u> (g)	(pcs.)
New	M 5	35	18	10
New	M 6	35	20	10
New	M 8	35	22	10
New	M10	35	26	10
New	M12	35	30	10
New	M14	35	38	10

183X-75 (XZN)	L (mm)	R (mm)	ДŽ (g)	∭ (pcs.)
M 5	75	6.0	48	10
M 6	75	6.2	49	10
M 8	75	7.4	51	10
M10	75	9.8	52	10
M12	75	11.7	57	10
M14	75	13.5	67	10

	183X-150 (XZN)	L (mm)	R (mm)	₫Д (g)	(pcs.)
New	M 5	150	6.0	112	10
New	M 6	150	6.2	113	10
New	M 8	150	7.4	115	10
New	M10	150	9.8	120	10
New	M12	150	11.7	125	10

		D (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
New 13134	3/8"	22	32	70	10	*1
New 14134	1/2"	25	38	90	10	*2
New 16134	3/4"	44	52	200	2	*3

- \*1 C-Ring=1302C,Pin/O-Ring=1302A/B
- \*2 C-Ring=1401C,Pin/O-Ring=1401A/B

  \*3 C-Ring=1600C,Pin/O-Ring=1601A/B

  \*3 C-Ring=1600C,Pin/O-Ring=1601A/B

For DIN3126 E11.2 Bits Für DIN3126 E11.2 Bits Pour DIN3126 E11.2 Embouts







Ersatzschraube : M8×5, ● 4mm Vis de remplacement : M8×5, ● 4mm

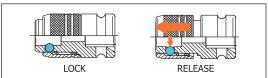
		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	(V)
New 13142-F11.2	3/8"	18.9	22	46	116	10	*1
New 14142-F11.2	1/2"	18.9	25	46	207	10	*2

\*1 C-Ring=1302C,Pin/O-Ring=1302A/B \*2 C-Ring=1401C,Pin/O-Ring=1401A/B →P238-239

For DIN3126 E11.2 Bits Für DIN3126 E11.2 Bits Pour DIN3126 E11.2 Embouts







110	$\square$	TYPE	L (mm)	₫Д (g)	(pcs.)
35B		Ball	35	9	10
35P		Pin	35	9	10
50B		Ball	50	15	10
50P	1/4"	Pin	50	15	10
100B	[1/4"]	Ball	100	34	10
100P		Pin	100	34	10
150B		Ball	150	54	10
150P		Pin	150	54	10

● DIN 3126 Form E 6.3

112	$\square$	TYPE	L (mm)	₫Д (g)	(pcs.)
50B		Ball	50	22	10
50P		Pin	50	22	10
100B	3/8"	Ball	100	71	10
100P	3/8	Pin	100	71	10
150B		Ball	150	121	10
150P		Pin	150	121	10

● DIN 3126 Form E 6.3



135E		TYPE	L (mm)	Д¯Д (g)	(pcs.)
60B	1/0"	Ball	60	46	10
60P	1/2	Pin	60	46	10

DIN 3126 Form E 6.3

117	$\square$	TYPE	L (mm)	₫∄ (g)	(pcs.)
50B		Ball	50	15	10
50P	1/4"	Pin	50	15	10
100B		Ball	100	71	10
100P		Pin	100	71	10

DIN 3126 Form G7

120	$\square$	TYPE	L (mm)	ДД (g)	(pcs.)
50B	3/8"	Ball	50	27	10
50P		Pin	50	27	10

● DIN 3126 Form E 8

186		L (mm)	₫Д (g)	(pcs.)
75P	3/8"	75	65	10
75P	1/2"	75	85	10

DIN 3126 Form E 11.2







112-50B/-100B/-150B -50P/-100P/-150P















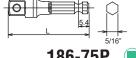


120-50B/-50P



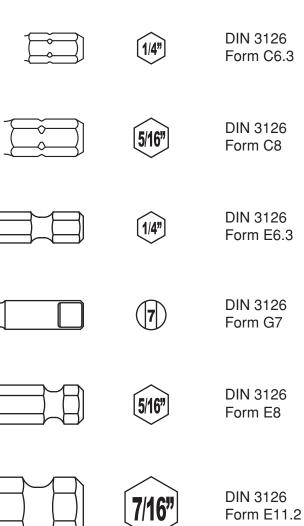










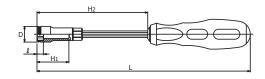


Form E11.2





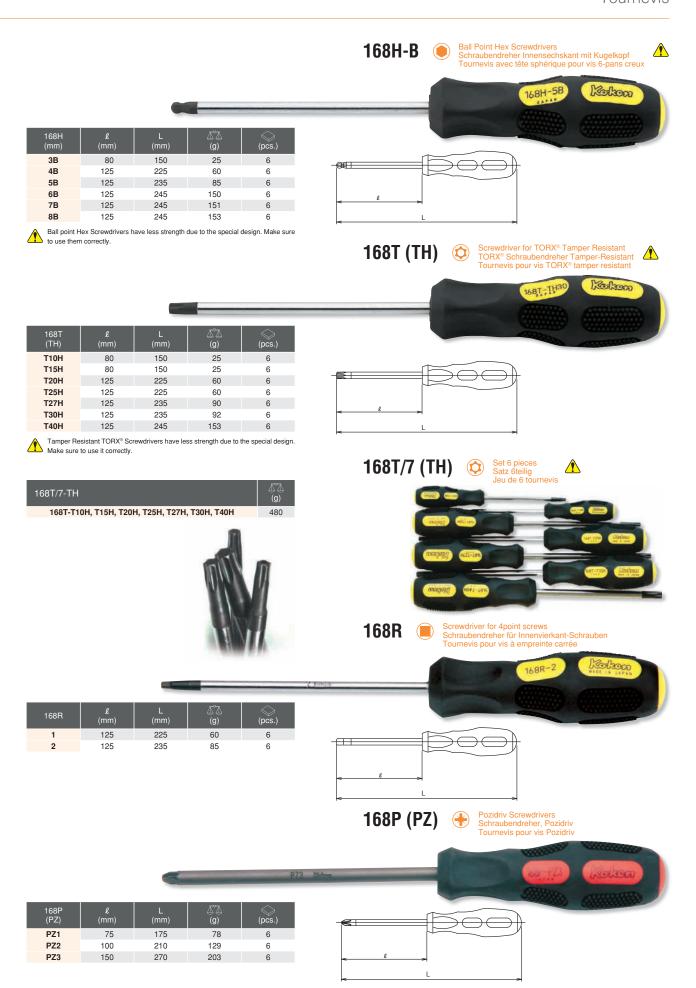




167C(2B) (mm)	D (mm)	ل (mm)	H <sub>1</sub> (mm)	H₂ (mm)	L (mm)	₫∄ (g)	(pcs.)
7(2B)	11.5	4	38	122	235	120	6
8(2B)	12.3	5	38	122	235	125	6
10(2B)	14.2	6	38	122	235	130	6
12(2B)	17.3	7	38	122	235	135	6

167C/3-2B PLASTIC BAG		4 Pieces Set/△☐=280g
	Socket Drivers	
Socket: Grip:	7, 8, 10 167C-GRIP	

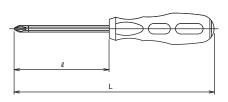




Screwdriver Phillips (Blade-Through type) Kreuzschlitz Schraubendreher PH mit durchgehender 6-kant Klinge Tournevis pour vis cruciformes Phillips 166P Slotted screwdriver (Blade-Through type) Schlitz-Schraubendreher mit durchgehender 6-kant Klinge **166S** Tournevis pour vis à fente



166S-8

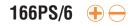




166P (PH)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
1	75	175	78	6
2	100	210	129	6
3	150	270	203	6

Kortom

166S	ل (mm)	L (mm)	₫₫ (g)	(pcs.)
5	75	175	78	6
6	100	210	129	6
8	150	270	203	6





Set 6 pieces Satz 6teilig Jeu de 6 tournevis











Kolom

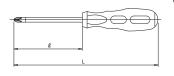
168P

**168S** 

Screwdriver (Blade-Through Type), Phillips Schraubendreher mit durchgehender Klinge, Phillips Tournevis à zone de frappe, Phillips Slotted Screwdriver Schlitz-Schraubendreher



1685-8





1	75	175	59	6
2	100	210	86	6
2(150)	150	260	100	6
2(200)	200	310	111	6
3	150	270	150	6
168S	l (man)	L ()	<u> </u>	$\Diamond$

168S	ℓ (mm)	L (mm)	Ø∆ (g)	(pcs.)
5	75	175	59	6
6	100	210	86	6
6(150)	150	260	100	6
6(200)	200	310	111	6
8	150	270	150	6

168PS/6 CARDBOARD BOX:W280×H115×T40mm

168P Screwdrivers 1, 2, 3

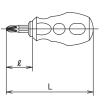
**168S** Screwdrivers 5, 6, 8

PK168PS/6

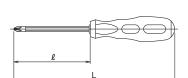
PLASTIC TRAY

**168P** Screwdrivers 1, 2, 3

168S Screwdrivers



168CS	لا (mm)	L (mm)	ДД (g)	(pcs.)
2×6	22	86	46	6



168C	ل (mm)	L (mm)	(g)	(pcs.)
2×6	100	210	108	6
2×6(150)	150	260	120	6
2×6(200)	200	310	133	6

168PS/6 + -



PK168PS/6 ⊕ ⊖



Set 6 pieces in Plastic Box Satz 6teilig in Plastikkassette Module plastique des 6 tournevis



168CS + -



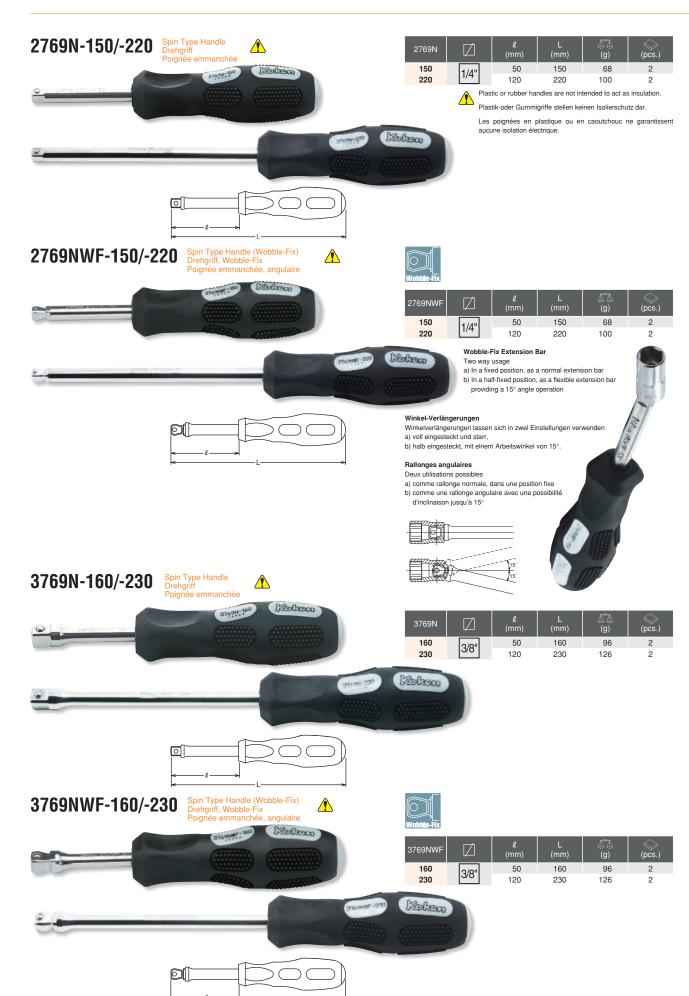
Interchangeable Screwdriver, Stubby Schraubendrehergriff für auswechselbare Klinge, kurz Poignée porte-lames reversible, court





Interchangeable Screwdriver Schraubendrehergriff für auswechselbare Klingen Poignée porte-lames reversible





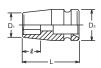


Impact Steckschlüssel

# 12400M / 12400A (







12400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
5/32	7.5	13	4	23	14	10	*1
3/16	8.1	13	4	23	14	10	*1
1/4	10	13	5	23	14	10	*1
9/32	11.3	13	5	23	14	10	*1
5/16	12.5	13	6	23	14	10	*1
11/32	13.8	13	7	23	14	10	*1
3/8	15	13	7	23	15	10	*1
7/16	16.3	13	8	23	18	10	*1
1/2	18.8	13	8	23	19	10	*1
9/16	20	13	9	23	20	10	*1

<sup>\*1</sup> Pin/O-Ring=1200A/B > P239

### 12400M 7.5 \*1 4.5 8.1 8.8 \*1 5.5 9.4 \*1 12.5 \*1 13.8 \*1 16.3 17.5 \*1 18.8

### 12400MG / 12400AG



6-point Sockets with Magnet 6-kant Steckschlüssel mit Magnet Douilles 6-pans avec aimant





12400AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(I)
3/16	8.1	13	2.1	23	13	10	*1
1/4	10	13	2.4	23	16	10	*1
5/16	12.5	13	3.5	23	17	10	*1
11/32	13.8	13	3.8	23	18	10	*1
3/8	15	13	4.2	23	18	10	*1
7/16	16.3	13	4.9	23	21	10	*1
1/2	18.8	13	6	25	21	10	*1
9/16	20	13	6.4	25	20	10	*1

<sup>\*1</sup> Pin/O-Ring=1200A/B > P239

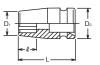
### Д7 (g) 7.5 2.1 4.5 8.1 2.1 \*1 2.1 8.8 5.5 9.4 2.1 2.4 \*1 12.5 3.5 13.8 3.8 \*1 \*1 16.3 4.9 \*1 17.5 5.6 \*1 18.8 \*1 6.4 \*1

### 12410M



Surface Drive Sockets Surface Drive Steckschlüssel Douilles, Surface Drive





# **SURFACE DRIVE**

Surface drive sockets are designed to retain contact with the flat sides of the nut in order to transmit higher torque and reduce nut wear.

These sockets are ideal for using on polished nuts, aluminum nuts and nuts with worn

out points.

Das Profil unserer Surface-Drive Steckschlüssel greift die Schraube an deren Flächen. Dies sichert eine höhere Kraftübertragung und verhindert ein Durchrutschen des Steckschlüssels. Diese Steckschlüssel eignen sich besonders für polierte Schrauben, Aluminium Schrauben und Schrauben bei denen die Ecken bereits abgerundet sind.

Notre profil Surface Drive assure le contact entre la douille et les plats de l'écrou. Ceci réduit l'usure et permet la transmission d'un couple plus élevé. C'est une solution idéale pour les écrous polies, celles en aluminium ou arrondies.

12410M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	W
6	10	13	5	23	14	10	*1
7	11.3	13	5	23	15	10	*1
8	12.5	13	6	23	15	10	*1
9	13.8	13	7	23	14	10	*1
10	15	13	7	23	14	10	*1
11	16.3	13	8	23	17	10	*1
12	17.5	13	8	23	19	10	*1
13	18.8	13	8	23	19	10	*1

<sup>\*1</sup> Pin/O-Ring=1200A/B > P239

1/4"

12465M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫¼ (g)	(pcs.)	W
10	15	13	8	23	17	10	*1
11	16.3	13	8	23	18	10	*1
12	17.5	13	9	23	18	10	*1
13	18.8	13	9	23	20	10	*1

\*1 Pin/O-Ring=1200A/B -> P239

# 12465M



Pathfinder Sockets Pathfinder Steckschlüssel Douilles Pathfinder





# **PATHFINDER®**

The beveled flats of the 6-points opening of the PATHFINDER socket engage the nut almost immediately. PATHFINDER sockets are ideal for using with power tools in automatic assembly processes, as the power tool does not have to be totally stopped for the socket to engage the nut.

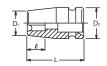
Da die Maschine nicht nach jedem Schraubvorgang angehalten werden muss, ergibt sich eine erhöhte Produktivität, die sich bei vollautomatischen Maschinen (Mehrspindelschrauber) ganz besonders auswirkt.

Les parois en biais des douilles en 6-pans Pathfinder assurent l'engagement quasi immédiat de l'écrou. Le fait de ne pas devoir arrêter la machine après chaque serrage, engendre une productivité supérieure dans les châines de montage automatiques.

12425



TORX® Sockets TORX® Steckschlüssel Douilles TORX®





(⊑)	(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)	
E 4	6.6	13	4.6	23	14	10	*1
E 5	7.7	13	5.2	23	15	10	*1
E 6	8.7	13	5.4	23	15	10	*1
E 7	9.2	13	6.6	23	15	10	*1
E 8	9.7	13	7	23	15	10	*1
E10	12.2	13	8.2	23	15	10	*1

\*1 Pin/O-Ring=1200A/B > P239





	Е	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24	E26	E28
S <sub>1</sub>	(ref. mm)	3.7	4.6	5.6	6.1	7.4	9.3	9.9	11.0	12.8	14.6	16.5	18.3	20.1	22.0	23.7	25.5
S <sub>2</sub>	(ref. mm)	2.7	3.3	4.0	4.3	5.3	6.8	7.1	7.9	9.2	10.5	11.9	13.2	14.8	15.7	17.5	18.3

12460M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫₫ (g)	(pcs.)	(D)
5.5	9.7	13	4	23	15	10	*1
6	10.3	13	5	23	15	10	*1
7	11.6	13	5	23	16	10	*1
8	12.8	13	6	23	16	10	*1
10	15.3	13	7	23	19	10	*1
13	19.1	13	8	23	23	10	*1

12460A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
1/4	10.3	13	5	23	15	10	*1
5/16	12.8	13	6	23	16	10	*1
3/8	15.3	13	7	23	19	10	*1
1/2	19.1	13	8	23	23	10	*1

\*1 Pin/O-Ring=1200A/B >P239

12460MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
5.5	9.7	13	2.1	23	16	10	*1
6	10.3	13	2.4	23	16	10	*1
7	11.6	13	2.8	23	16	10	*1
8	12.8	13	3.5	25	18	10	*1
10	15.3	13	4.2	28	20	10	*1
13	19.1	13	6	30	23	10	*1
14	20	13	6.4	30	24	10	*1

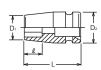
12460AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)	(D)
1/4	10.3	13	2.4	23	16	10	*1
5/16	12.8	13	3.5	25	18	10	*1
3/8	15.3	13	4.2	28	20	10	*1
7/16	16.6	13	4.9	29	27	10	*1
1/2	19.1	13	6	30	23	10	*1

\*1 Pin/O-Ring=1200A/B >P239

12460M 12460A



For Self-Tapping Screws Für selbstschneidende Schrauben Pour vis auto-taraudeuses

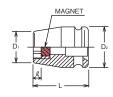




# 12460MG 12460AG



With Magnet for Self-Tapping Screws mit Magnet für selbstschneidende Schrauben avec aimant pour vis auto-taraudeuses



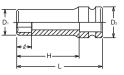


12300M (



6-point Sockets, deep 6-kant Steckschlüssel, lang Douilles longues, 6-pans



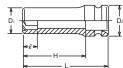


## 12365M



Pathfinder Sockets, deep Pathfinder Steckschlüssel, lang Douilles longues, Pathfinder



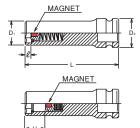


12300G



Impact Socket with Sliding Magnet Impact Steckschlüssel mit versenkbarem Magnet Douilles Impact avec aimant, glissant pour écrous



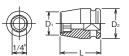


### 12139



Impact Bit Holder Impact Klingenhalter Porte embouts Impact



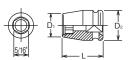


### **12140 C**



Impact Bit Holder Impact Klingenhalter Porte embouts Impact



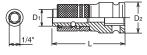


# 12142-F6.3



Impact Bit Holder Impact Klingenhalter Porte embouts Impact





	12300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	(I)
New	6	10	13	6	38	48	26	10	*1
	7	11.3	13	7	38	48	30	10	*1
	8	12.5	13	8	38	48	32	10	*1
	10	15	13	10	37	48	34	10	*1
	11	16.3	13	11	37	48	46	10	*1
	12	17.5	13	12	37	48	49	10	*1
	13	18.8	13	13	37	48	52	10	*1
	14	20	13	14	36	48	57	10	*1

\*1 Pin/O-Ring=1200A/B > P239

12365M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	(D)
10	15	13	8	37	48	34	10	*1
11	16.3	13	8	37	48	46	10	*1
12	17.5	13	9	37	48	49	10	*1
13	18.8	13	9	37	48	52	10	*1

\*1 Pin/O-Ring=1200A/B >P239

12300G (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
8	12.5	13	4	22	48	32	10	*1
10	15	13	4.5	20.5	48	34	10	*1
12	17.5	13	6	24.5	48	49	10	*1
13	18.8	13	6.5	23	48	52	10	*1
14	20	13	7	21	48	57	10	*1

\*1 Pin/O-Ring=1200A/B > P239

	D₁ (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
12139-1/4	11	13	26	15	10	*1

\*1 Pin/O-Ring=1200A/B > P239

For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts

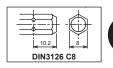




	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫₫ (g)	(pcs.)	W
12140-5/16	14	13	26	15	10	*1

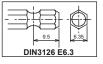
\*1 Pin/O-Ring=1200A/B > P239

For DIN3126 C8 Bits Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts



	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
12142-F6.3	16.5	13	36	22	10	*1
*1 Pin/O-Ri	ng=1200A/B	→P239		1		

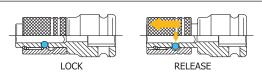
For DIN3126 E6.3 Bits Für DIN3126 E6.3 Bits Pour DIN3126 E6.3 Embouts





D8

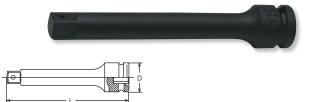


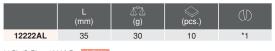


	12760	D (mm)	L (mm)	Д¯Д (g)	(pcs.)	(D)		
	55P	13	55	26	10	*1		
	75P	13	75	45	10	*1		
New	100P	13	100	50	10	*1		
	*1 Pin/O-Ring=1200A/B → P239							

# 12760-55P/-75P/-100P

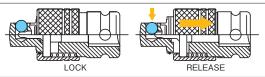
Extension Bars Verlängerungen Rallonges





\*1 Pin/O-Ring=1200A/B > P239

Lock & Quick Release



12222AL

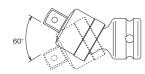
Adaptor (Quick Release) Schnellwechsel-Verbindungsstück Adaptateur autoserrant





	L (mm)	Д¯Д (g)	(pcs.)	W
12770-P	39	30	10	*1

\*1 Pin/O-Ring=1200A/B > P239



12770-P

Universal Joint Gelenk-Einsatz Cardan universel





	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pcs.)	W
12233A-P	1/4"	3/8"	22	15	10	*1

\*1 Pin/O-Ring=1200A/B >P239



Adaptor Verbindungsstück Augmentateur





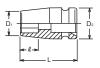
Impact Steckschlüssel Douilles Impact

# 13400M / 13400A 🔘



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





13400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)	(D)
1/4	10.8	19	5	32	40	10	*1
5/16	13.3	19	6	32	40	10	*1
3/8	15.8	19	7	32	40	10	*1
7/16	17	19	8	32	41	10	*1
1/2	19.5	22	10	32	56	10	*2
9/16	20.8	22	10	32	56	10	*2
5/8	23.3	22	11	32	57	10	*2
11/16	24.5	22	12	32	60	10	*2
3/4	27	22	12	32	67	10	*2
13/16	29.5	22	12	32	71	10	*2
7/8	30.8	22	13	32	72	10	*2

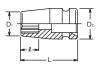
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

# 13405M / 13405A



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





### 13401MS



6-point short sockets, Thin Walled 6-kant Steckschlüssel kurz, dünnwandig Douilles 6-pans courtes, a paroi mince







# RS13401MS/5



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



		oca de dodines can	t
	-	-	

13400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	W
6	10.8	19	5	32	40	10	*1
7	12	19	5	32	40	10	*1
8	13.3	19	6	32	40	10	*1
9	14.5	19	7	32	40	10	*1
10	15.8	19	7	32	40	10	*1
11	17	19	8	32	41	10	*1
12	18.3	19	9	32	43	10	*1
13	19.5	22	10	32	56	10	*2
14	20.8	22	10	32	56	10	*2
15	22	22	11	32	56	10	*2
16	23.3	22	11	32	57	10	*2
17	24.5	22	12	32	60	10	*2
18	25.8	22	12	32	62	10	*2
19	27	22	12	32	67	10	*2
20	28.3	22	12	32	70	10	*2
21	29.5	22	12	32	71	10	*2
22	30.8	22	13	32	72	10	*2
23	32	22	13	32	75	10	*2
24	33.3	22	13	32	78	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13405M (mm)	D <sub>1</sub> (mm)	D₂ (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
8	13.3	19	6	32	40	10	*1
9	14.5	19	7	32	40	10	*1
10	15.8	19	7	32	40	10	*1
12	18.3	19	9	32	43	10	*1
13	19.5	22	10	32	56	10	*2
14	20.8	22	10	32	56	10	*2
15	22	22	11	32	56	10	*2
17	24.5	22	12	32	60	10	*2
19	27	22	12	32	67	10	*2

13405A (inch)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
1/4	10.8	19	5	32	40	10	*1
5/16	13.3	19	6	32	40	10	*1
3/8	15.8	19	7	32	40	10	*1
7/16	17	19	8	32	41	10	*1
1/2	19.5	22	10	32	56	10	*2
9/16	20.8	22	10	32	56	10	*2
5/8	23.3	22	11	32	57	10	*2
11/16	24.5	22	12	32	60	10	*2
3/4	27	22	12	32	67	10	*2
13/16	29.5	22	12	32	71	10	*2
7/8	30.8	22	13	32	72	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13401 (mm		D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
8	12.3	18.5	6	22	25	10	*1
10	14.8	18.5	6	22	25	10	*1
12	17.3	18.5	10	22	20	10	*1
13	18.5	21.5	10	22	30	10	*2
14	19.8	21.5	10	22	30	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B 
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

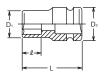
RS13401MS/5	5 Pieces Set/Rail 150mm	₫Д (g)
8, 1	10, 12, 13, 14	180

# 13401M 13401A



6-point Socket, Thin Walled 6-kant Steckschlüssel, dünnwandig Douilles à paroi mince, 6-pans







13401A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
1/4	9.8	18.5	5	32	28	10	*1
5/16	12.3	18.5	6	32	31	10	*1
3/8	14.8	18.5	7	32	34	10	*1
7/16	16	18.5	8	32	35	10	*1
1/2	18.5	21.5	10	32	43	10	*2
9/16	19.8	21.5	10	32	49	10	*2
5/8	22.3	21.5	11	32	51	10	*2
11/16	23.5	21.5	12	32	54	10	*2
3/4	26	21.5	12	32	60	10	*2
13/16	28.5	21.5	12	32	70	10	*2
7/8	29.8	21.5	13	32	73	10	*2

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

RS13401M/9	9 Pieces Set/Rail 250mm	₫∄ (g)
8, 10, 12, 13, 1	4. 17. 19. 21. 22	505

13401M

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23

9.8

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13.5

14.8

16

17.3

18.5

19.8

22.3

23.5

24.8

27.3

28.5

29.8

31

32.3

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

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Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



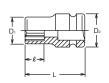


# 13406M 13406A



12-point Socket, Thin Walled 12-kant Steckschlüssel, dünnwandig Douilles à paroi mince, 12-pans







1/4	~ ~		(mm)	(mm)	(g)	(pcs.)	(1)
1/-	9.8	18.5	5	32	28	10	*1
5/16	12.3	18.5	6	32	31	10	*1
3/8	14.8	18.5	7	32	34	10	*1
7/16	16	18.5	8	32	35	10	*1
1/2	18.5	21.5	10	32	43	10	*2
9/16	19.8	21.5	10	32	49	10	*2
5/8	22.3	21.5	11	32	51	10	*2
11/16	23.5	21.5	12	32	54	10	*2
3/4	26	21.5	12	32	60	10	*2
13/16	28.5	21.5	12	32	70	10	*2
7/8	29.8	21.5	13	32	73	10	*2

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13406M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	ⅆ
6	9.8	18.5	5	32	28	10	*1
7	11	18.5	5	32	30	10	*1
8	12.3	18.5	6	32	31	10	*1
9	13.5	18.5	7	32	32	10	*1
10	14.8	18.5	7	32	34	10	*1
11	16	18.5	8	32	35	10	*1
12	17.3	18.5	9	32	36	10	*1
13	18.5	21.5	10	32	43	10	*2
14	19.8	21.5	10	32	49	10	*2
15	21	21.5	11	32	49	10	*2
16	22.3	21.5	11	32	51	10	*2
17	23.5	21.5	12	32	54	10	*2
18	24.8	21.5	12	32	57	10	*2
19	26	21.5	12	32	60	10	*2
20	27.3	21.5	12	32	65	10	*2
21	28.5	21.5	12	32	70	10	*2
22	29.8	21.5	13	32	73	10	*2
23	31	21.5	13	32	73	10	*2
24	32.3	21.5	13	32	75	10	*2
*4 O D'	10010 B	O D'	04 A /D				

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

Impact Steckschlüssel Douilles Impact

# 13400MG / 13400AG (







13400AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
1/4	10.8	19	2.4	32	46	10	*1
5/16	13.3	19	3.5	32	45	10	*1
11/32	14.5	19	3.8	32	44	10	*1
3/8	15.8	19	4.2	32	49	10	*1
7/16	17	19	4.9	32	50	10	*1
1/2	19.5	22	6	32	70	10	*2
9/16	20.8	22	6.4	32	76	10	*2
5/8	23.3	22	7	32	88	10	*2
11/16	24.5	22	7.5	32	95	10	*2
3/4	27	22	8	32	116	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

### 13410M



Surface Drive Sockets Surface Drive Steckschlüssel Douilles, Surface Drive





### 13465M







# **PATHFINDER®**

The beveled flats of the 6-points opening of the PATHFINDER socket engage the nut almost immediately. PATHFINDER sockets are ideal for using with power tools in automatic assembly processes, as the power tool does not have to be totally stopped for the socket to engage the nut.

Da die Maschine nicht nach jedem Schraubvorgang angehalten werden muss, ergibt sich eine erhöhte Produktivität, die sich bei vollautomatischen Maschinen (Mehrspindelschrauber) ganz besonders auswirkt.

Les parois en biais des douilles en 6-pans Pathfinder assurent l'engagement quasi immédiat de l'écrou. Le fait de ne pas devoir arrêter la machine après chaque serrage, engendre une productivité supérieure dans les châines de montage automatiques.

# 13425



TORX® Sockets TORX® Steckschlüssel Douilles TORX®





13400MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
6	10.8	19	2.4	32	46	10	*1
7	12	19	2.8	32	45	10	*1
8	13.3	19	3.5	32	45	10	*1
9	14.5	19	3.8	32	44	10	*1
10	15.8	19	4.2	32	49	10	*1
11	17	19	4.9	32	50	10	*1
12	18.3	19	5.6	32	55	10	*1
13	19.5	22	6	32	70	10	*2
14	20.8	22	6.4	32	76	10	*2
15	22	22	6.8	32	76	10	*2
16	23.3	22	7	32	88	10	*2
17	24.5	22	7.5	32	95	10	*2
18	25.8	22	7.8	32	105	10	*2
19	27	22	8	32	116	10	*2
21	29.5	22	8	32	125	10	*2
22	30.8	22	9.5	32	135	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
6	10.8	19	5	32	40	10	*1
7	12	19	5	32	40	10	*1
8	13.3	19	6	32	40	10	*1
9	14.5	19	7	32	40	10	*1
10	15.8	19	7	32	40	10	*1
11	17	19	8	32	42	10	*1
12	18.3	19	9	32	50	10	*1
13	19.5	22	10	32	56	10	*2
14	20.8	22	10	32	56	10	*2
15	22	22	11	32	56	10	*2
16	23.3	22	11	32	57	10	*2
17	24.5	22	12	32	60	10	*2
19	27	22	12	32	67	10	*2
22	30.8	22	13	32	72	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13465M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	W
8	13.3	19	8	32	40	10	*1
10	15.8	19	8	32	43	10	*1
11	17	19	8	32	44	10	*1
12	18.3	19	9	32	47	10	*1
13	19.5	22	9	32	55	10	*2
14	20.8	22	11	32	56	10	*2
15	22	22	11	32	56	10	*2
16	23.3	22	11	32	57	10	*2
17	24.5	22	12	32	60	10	*2
18	25.8	22	13	32	63	10	*2
19	27	22	13	32	66	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	W
E 4	9.7	19	4.6	32	44	10	*1
E 5	10.2	19	5.2	32	43	10	*1
E 6	10.7	19	5.4	32	44	10	*1
E 7	11.2	19	6.6	32	44	10	*1
E 8	11.7	19	7	32	44	10	*1
E10	12.2	19	8.2	32	42	10	*1
E12	14.2	19	9.3	32	43	10	*1
E14	17.2	19	10.6	32	44	10	*1
E16	18.2	19	11.8	32	42	10	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

Douilles Impact

13425 (EPL)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫₫ (g)	(pcs.)	(1)
8EPL	12	19	5.2	32	44	10	*1
10EPL	13.3	19	6.2	32	44	10	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

13460M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
6	11.4	19	5	32	43	10	*1
7	12.8	19	5	32	44	10	*1
8	14.1	19	6	32	44	10	*1
10	16.6	19	7	32	45	10	*1
13	20.3	22	10	32	60	10	*2

13460A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫₫ (g)	(pcs.)	Ѿ
1/4	11.4	19	5	32	43	10	*1
3/8	16.6	19	7	32	45	10	*1
1/2	20.3	22	10	32	60	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13460MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
6	11.4	19	2.4	32	44	10	*1
7	12.8	19	2.8	32	46	10	*1
8	14.1	19	3.5	32	48	10	*1
10	16.6	19	4.2	33	54	10	*1
13	20.3	22	6	34	81	10	*2

13460AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
1/4	11.4	19	2.4	32	44	10	*1
5/16	14.1	19	3.5	32	48	10	*1
3/8	16.6	19	4.2	33	54	10	*1
1/2	20.3	22	6	34	81	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13401LH (LH-S)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
5S	11	19	5	32	32	10	*1
6S	12.3	19	5.6	32	34	10	*1
88	16	19	6.8	32	36	10	*1
10S	18.5	22	8	32	50	10	*2
12S	22.3	22	9.2	32	58	10	*2
14S	24.8	22	10.4	32	63	10	*2
16S	28.5	22	11.6	32	77	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

# 13425-EPL ()



TORXPLUS® Sockets TORXPLUS® Steckschlüssel Douilles TORXPLUS®

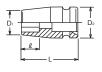




# 13460M / 13460A



For Self-Tapping Screws Für selbstschneidende Schrauben Pour vis auto-taraudeuses





# 13460MG 13460AG



Sockets with magnets for Self-Tapping Screws Steckschlüssel mit Magnet für selbstschneidende Schrauben Douilles avec aimant pour vis auto-taraudeuses

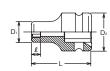




## 13401LH



LHS Sockets Steckschlüssel mit LHS Profil Douilles au profil LHS



13400-WN



Weld Nut Sockets Steckschlüssel für Schweissmuttern Douilles pour écrou à souder



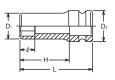
S <sub>1</sub> (ref. mm) 5.6 6.8 9.0 11.3 13.6 15.8 18.	LH-S		LH-5S	LH-6S	LH-8S	LH-10S	LH-12S	LH-14S	LH-16S
	S <sub>1</sub>	(ref. mm)	5.6	6.8	9.0	11.3	13.6	15.8	18.1
S <sub>2</sub> (ref. mm) 7.5 9.0 12.0 15.0 18.0 21.0 24.	S <sub>2</sub>	(ref. mm)	7.5	9.0	12.0	15.0	18.0	21.0	24.0

13400-WN	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)	W
6WN	15.8	19	6	32	48	10	*1
8WN	18.3	19	8	32	48	10	*1
9WN	19.5	22	9	32	47	10	*2
10WN	20.8	22	10	32	65	10	*2
12WN	24.5	22	12	32	73	10	*2
14WN	27	22	14	32	79	10	*2
17WN	32	22	17	35	110	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

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\*1 \*1 12.3 50 40 10 8 18.5 8 36.5 10 14.8 18.5 10 36.5 50 46 10 16 18.5 50 49 \*1 11 11 36.5 10 12 17.3 18.5 36.5 53 10 \*2 13 18.5 21.5 13 36.5 50 67 10 14 19.8 21.5 36.5 50 70 10 \*2 15 21 21.5 15 35.5 50 75 10 \*2 16 22.3 21.5 35.5 10 17 23.5 21.5 17 35.5 50 82 10 \*2 18 24.8 21.5 34.5 86 19 26 21.5 19 34.5 50 93 10 \*2 21 28.5 21.5 21 34.5 104 10 \*2 22 29.8 21.5 22 33.5 110 \*2 23 31 21.5 33.5 50 115 \*2 32.3 21.5 24 32.5 50 120 \*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

RS13301X/9 (



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



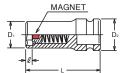


13300XG



Impact semi-deep socket with Sliding Magnet Impact Steckschlüssel mittel lang mit versenkbarem Magnet Douilles semi-longues avec aimant, glissant pour écrous





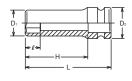


13300M / 13300A (



6-point Sockets, deep 6-kant Steckschlüssel, lang Douilles longues, 6-pans





RS13301X/9	9 Pieces Set/Rail 250mm	₫∄ (g)
8, 10, 12, 1	3, 14, 17, 19, 21, 22	710

	13300XG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(I)
	8	13.3	19	4	20.5	50	40	10	*1
	10	15.8	19	4.5	20	50	46	10	*1
New	11	17	19	5	20	50	50	10	*1
	12	18.3	19	6	20	50	55	10	*1
	13	19.5	22	6.5	19	50	70	10	*2
	14	20.8	22	7	18	50	75	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)	(D)
6	10.8	19	6	66.5	80	77	10	*1
7	12	19	7	66.5	80	82	10	*1
8	13.3	19	8	66.5	80	82	10	*1
9	14.5	19	9	66.5	80	88	10	*1
10	15.8	19	10	66.5	80	94	10	*1
11	17	19	11	66.5	80	110	10	*1
12	18.3	19	12	66.5	80	111	10	*1
13	19.5	22	13	66.5	80	138	10	*2
14	20.8	22	14	66.5	80	148	10	*2
15	22	22	15	65.5	80	157	10	*2
16	23.3	22	16	65.5	80	156	10	*2
17	24.5	22	17	65.5	80	168	10	*2
18	25.8	22	18	64.5	80	190	10	*2
19	27	22	19	64.5	80	192	10	*2
20	28.3	22	20	64.5	80	224	10	*2
21	29.5	22	21	64.5	80	226	10	*2
22	30.8	22	22	63.5	80	231	10	*2

13300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	W
1/4	10.8	19	6	66.5	80	77	10	*1
5/16	13.3	19	8	66.5	80	82	10	*1
3/8	15.8	19	10	66.5	80	94	10	*1
7/16	17	19	11	66.5	80	110	10	*1
1/2	19.5	22	13	66.5	80	138	10	*2
9/16	20.8	22	14	66.5	80	148	10	*2
5/8	23.3	22	16	65.5	80	156	10	*2
11/16	24.5	22	17	65.5	80	168	10	*2
3/4	27	22	19	64.5	80	192	10	*2
13/16	29.5	22	21	64.5	80	226	10	*2
7/8	30.8	22	22	63.5	80	231	10	*2

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13301M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	(D)
6	10	18.5	6	66.5	80	65	10	*1
7	11	18.5	7	66.5	80	66	10	*1
8	12.3	18.5	8	66.5	80	68	10	*1
9	13.5	18.5	9	66.5	80	70	10	*1
10	14.8	18.5	10	66.5	80	72	10	*1
11	16	18.5	11	66.5	80	80	10	*1
12	17.3	18.5	12	66.5	80	85	10	*1
13	18.5	21.5	13	66.5	80	100	10	*2
14	19.8	21.5	14	66.5	80	110	10	*2
15	21	21.5	15	65.5	80	120	10	*2
16	22.3	21.5	16	65.5	80	130	10	*2
17	23.5	21.5	17	65.5	80	136	10	*2
18	24.8	21.5	18	64.5	80	145	10	*2
19	26	21.5	19	64.5	80	155	10	*2
20	27.3	21.5	20	64.5	80	170	10	*2
21	28.5	21.5	21	64.5	80	181	10	*2
22	29.8	21.5	22	63.5	80	190	10	*2

13301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	(1)
1/4	10	18.5	6	66.5	80	65	10	*1
5/16	12.3	18.5	8	66.5	80	68	10	*1
3/8	14.8	18.5	10	66.5	80	72	10	*1
7/16	16	18.5	11	66.5	80	80	10	*1
1/2	18.5	21.5	13	66.5	80	100	10	*2
9/16	19.8	21.5	14	66.5	80	110	10	*2
5/8	22.3	21.5	16	65.5	80	130	10	*2
11/16	23.5	21.5	17	65.5	80	136	10	*2
3/4	26	21.5	19	64.5	80	155	10	*2
13/16	28.5	21.5	21	64.5	80	181	10	*2
7/8	29.8	21.5	22	63.5	80	190	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	(1)
8	13.3	19	8	66.5	80	82	10	*1
10	15.8	19	10	66.5	80	94	10	*1
12	18.3	19	12	66.5	80	111	10	*1
13	19.5	22	13	66.5	80	138	10	*2
14	20.8	22	14	66.5	80	148	10	*2
17	24.5	22	17	65.5	80	168	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13300G (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
8	13.3	19	4	26.5	80	82	10	*1
10	15.8	19	4.5	26	80	105	10	*1
12	18.3	19	6	26	80	136	10	*1
13	19.5	22	6.5	25	80	165	10	*2
14	20.8	22	7	24	80	186	10	*2
15	22	22	7	24	80	195	10	*2
17	24.5	22	8	27	80	220	10	*2
19	27	22	9	28	80	230	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫¯₫ (g)	(pcs.)	(1)
7	12	19	7	66.5	80	77	10	*1
8	13.3	19	8	66.5	80	90	10	*1
9	14.5	19	9	66.5	80	90	10	*1
10	15.8	19	10	66.5	80	97	10	*1
11	17	19	11	66.5	80	110	10	*1
12	18.3	19	12	66.5	80	105	10	*1
13	19.5	22	13	66.5	80	135	10	*2
14	20.8	22	14	66.5	80	145	10	*2
15	22	22	15	65.5	80	160	10	*2
16	23.3	22	16	65.5	80	156	10	*2
17	24.5	22	17	65.5	80	168	10	*2
19	27	22	19	64.5	80	190	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

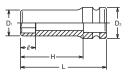
#### 13301M 13301A



6-point Deep Socket, Thin Walled 6-kant Steckschlüssel, dünnwandig Douilles à paroi mince longues, 6-pans





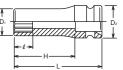


#### 13305M



12-point Sockets, deep 12-kant Steckschlüssel, lang Douilles longues, 12-pans



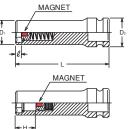


### 13300G



Impact Socket with Sliding Magnet Impact Steckschlüssel mit versenkbarem Magnet Douilles Impact avec aimant, glissant pour écrous



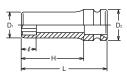


#### 13310M



Surface Drive Sockets, deep Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive





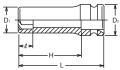
Impact Steckschlüssel **Douilles Impact** 

#### 13365M (



Pathfinder Sockets, deep Pathfinder Steckschlüssel, lang Douilles longues, Pathfinder



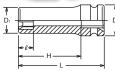


#### 13325



TORX® Deep Sockets TORX® Steckschlüssel, lang Douilles longues TORX®



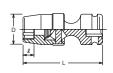


#### 13440M / 13440A 🔘



Universal Sockets Gelenk-Einsätze Douilles universelles



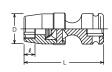


#### 13440T 🔘



TORX® Universal Sockets TORX® Gelenk-Einsätze Douilles universelles TORX®





#### 13430M



Universal Inhex Sockets Gelenk-Einsätze für Schrauben mit Innensechskant Douilles universelles 6-pans måles



<b>1</b> -		
	L	

13365M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	W
10	15.8	19	8	66.5	80	99	10	*1
11	17	19	8	66.5	80	108	10	*1
12	18.3	19	9	66.5	80	110	10	*1
13	19.5	22	9	66.5	80	142	10	*2
14	20.8	22	11	66.5	80	144	10	*2
15	22	22	11	65.5	80	150	10	*2
16	23.3	22	11	65.5	80	159	10	*2
17	24.5	22	12	65.5	80	170	10	*2
18	25.8	22	13	64.5	80	201	10	*2
19	27	22	13	64.5	80	203	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

	13325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)	(D)
New	E 8	11.7	19	7	66.5	80	80	10	*1
New	E10	12.2	19	8.2	66.5	80	85	10	*1
New	E12	14.2	19	9.3	66.5	80	90	10	*1
New	E14	17.2	19	10.6	66.5	80	110	10	*1
New	E16	18.2	19	11.8	66.5	80	110	10	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

13440M (mm)	D (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	W
10	15.8	5	57	115	10	*1
11	17	6	57	115	10	*1
12	18.3	6	57	115	10	*1
13	19.5	6	57	115	10	*1
14	20.8	7	59	120	10	*1
15	22	7	59	120	10	*1
16	23.3	8	59	120	10	*1
17	24.5	8	59	120	10	*1
18	25.8	9	61	126	10	*1
19	27	10	61	130	10	*1
20	29.5	10	61	135	10	*1
21	30.7	14	66	175	10	*1
22	32	13	66	185	10	*1
24	34.5	13	68	190	10	*1

13440A (inch)	D (mm)	ل (mm)	L (mm)	Д <sup>™</sup> Д (g)	(pcs.)	(1)
3/8	15.8	5	57	115	10	*1
7/16	17	6	57	115	10	*1
1/2	19.5	6	57	115	10	*1
9/16	20.8	7	59	120	10	*1
5/8	23.3	8	59	120	10	*1
11/16	24.5	8	59	120	10	*1
3/4	27	10	61	130	10	*1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B > P238-239

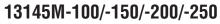
13440T (E)	D (mm)	ل (mm)	L (mm)	₫'∆ (g)	(pcs.)	(D)
E10	13.3	8.2	58	115	10	*1
E12	15.8	9.3	58	115	10	*1
E14	17	10.6	58	115	10	*1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B > P238-239

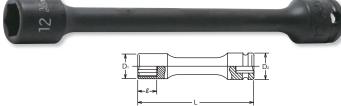
13430M (mm)	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	W
5	24	15	74	120	10	*1
6	24	15	74	131	10	*1
8	24	20	74	136	10	*1
10	24	20	74	141	10	*1
17	24	7	53	150	10	*1
17	24	7	53	150	10	*1

<sup>\*1</sup> C-Ring=1302C, Pin/O-Ring=1302A/B > P238-239

# Extra Long Sockets Schaftsteckschlüssel Douilles, série allongée







13145M-100 (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pce.)	(1)
8	13.3	19	8	100	90	1	*1
10	15.8	19	10	100	92	1	*1
12	18.3	19	12	100	100	1	*1
13	19.5	19	13	100	108	1	*1
14	20.8	19	14	100	112	1	*1
17	24.5	19	17	100	140	1	*1

#### ₫⁄] (g) 10.8 13.3 15.8 \*1 18.3 \*1 19.5 20.8 \*1 \*1 24.5

13145M-200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	L (mm)	ДД (g)	(pce.)	W
6	10.8	19	6	200	136	1	*1
8	13.3	19	8	200	141	1	*1
10	15.8	19	10	200	151	1	*1
12	18.3	19	12	200	159	1	*1
13	19.5	19	13	200	168	1	*1
14	20.8	19	14	200	177	1	*1
15	22	19	15	200	186	1	*1
17	24.5	19	17	200	194	1	*1

13145M-250 (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pce.)	(D)
6	10.8	19	6	250	167	1	*1
8	13.3	19	8	250	172	1	*1
10	15.8	19	10	250	182	1	*1
12	18.3	19	12	250	190	1	*1
13	19.5	19	13	250	199	1	*1
14	20.8	19	14	250	208	1	*1
15	22	19	15	250	217	1	*1
17	24.5	19	17	250	225	1	*1

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

13145M-100 (12P) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(1)
10	15.8	19	10	100	91	1	*1
12	18.3	19	12	100	100	1	*1

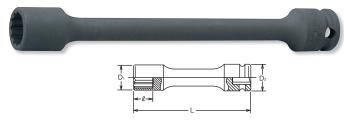
13145M-150 (12P) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫ <u>¼</u> (g)	(pce.)	(1)
10	15.8	19	10	150	120	1	*1
12	18.3	19	12	150	128	1	*1

13145M-200 (12P) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pce.)	ⅆ
10	15.8	19	10	200	151	1	*1
12	18.3	19	12	200	159	1	*1

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

### 13145M-100 (12P)/-150 (12P)/-200 (12P)





#### ℓ (mm) ய ம (g) 13.3 3.5 15.8 4.2 18.3 5.6 19.5 20.8 6.4

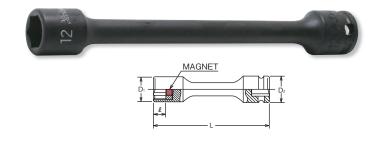
13145MG-15 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫¼ (g)	(pce.)	(1)
10	15.8	19	4.2	150	125	1	*1
12	18.3	19	5.6	150	136	1	*1
13	19.5	19	6	150	145	1	*1
14	20.8	19	6.4	150	150	1	*1

13145MG-2 (mm)	00 D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pce.)	₩
10	15.8	19	4.2	200	182	1	*1
12	18.3	19	5.6	200	190	1	*1
13	19.5	19	6	200	208	1	*1
14	20.8	19	6.4	200	225	1	*1

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

### 13145MG-100/-150/-200

Extra Long Socket with Magnet Schaftsteckschlüssel mit Magnet Douilles, série allongée, avec aimant



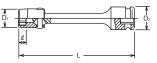
Impact Steckschlüssel

### 13146M-150/-200/-250



Extra Long Universal Sockets Schaftsteckschlüssel mit Gelenk Douilles, articulées, série allongée





13146M-150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	W
8	12	19	6	150	128	1	*1
10	14.3	19	7	150	131	1	*1
12	18	19	8	150	133	1	*1
13	19.3	19	8.5	150	132	1	*1
14	20	19	9	150	132	1	*1

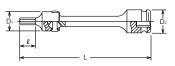
13146M-200 (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	ⅆ
8	12	19	6	200	159	1	*1
10	14.3	19	7	200	162	1	*1
12	18	19	8	200	164	1	*1
13	19.3	19	8.5	200	163	1	*1
14	20	19	9	200	163	1	*1

13146M-250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	(V)
8	12	19	6	250	190	1	*1
10	14.3	19	7	250	193	1	*1
12	18	19	8	250	195	1	*1
13	19.3	19	8.5	250	194	1	*1
14	20	19	9	250	194	1	*1

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239







13147M-150 (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	W
4	21	19	15	150	125	1	*1
5	21	19	15	150	128	1	*1
6	21	19	15	150	132	1	*1
8	21	19	15	150	136	1	*1
10	21	19	15	150	140	1	*1

13147M-200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	W
4	21	19	15	200	156	1	*1
5	21	19	15	200	159	1	*1
6	21	19	15	200	163	1	*1
8	21	19	15	200	167	1	*1
10	21	19	15	200	171	1	*1



13103M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
5(0.8)	9.5	19	8	32	39	10	*1
6(1.0)	10.8	19	9	32	41	10	*1
7(1.0)	12.5	19	10	32	44	10	*1
8(1.25)	13.5	19	10.5	35	49	10	*1
10(1.25)	15.8	19	13	35	49	10	*1
10(1.5)	15.8	19	13	35	49	10	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238

A special socket for installing a stud bolt.

Inside steel ball prevent the stud bolt stuck onto the socket. After installing a stud bolt, turn to anti-clockwise to removing the socket.

Spezialwerkzeug zum Setzen von Stehbolzen. Der Bolzen trifft im Werkzeug nur auf den Stahlbolzen, was die Kontaktfläche verringert. Nach dem Setzen des Stehbolzens kann das Werkzeug im Linkslauf vom Stehbolzen abgezogen werden.

Douilles spéciales pour monter les goujons.

Le goujon est en contact avec une bille d'acier pour l'empêcher d'adhérer à la douille. Après avoir posé le goujon, tourner dans le sens antihorlogique pour le retirer

13012M-52 (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)	(D)
4	18	15.5	34	52	35	10	*1
5	18	15.5	34	52	35	10	*1
6	18	15.5	34	52	39	10	*1
7	18	15.5	34	52	44	10	*1
8	21	15.5	34	52	60	10	*2
10	21	15.5	34	52	70	10	*2
12	21	15.5	34	52	79	10	*2
14	21	15.5	34	52	92	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

RS13012M/8-L52	8 Pieces Set/Rail 200mm	Д¯Д (g)		
4, 5, 6, 7, 8, 10, 12, 14				

13025-50 (T)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
T20	19	23.5	50	35	10	*1
T25	19	23.5	50	35	10	*1
T27	19	23.5	50	35	10	*1
T30	19	23.5	50	35	10	*1
T40	19	23.5	50	39	10	*1
T45	19	23.5	50	60	10	*1
T50	19	23.5	50	70	10	*1
T55	22	23.5	50	79	10	*2

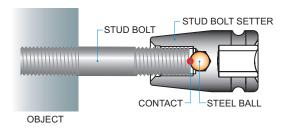
13025-90 (T)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
T20	19	63.5	90	43	10	*1
T25	19	63.5	90	45	10	*1
T27	19	63.5	90	47	10	*1
T30	19	63.5	90	50	10	*1
T40	19	63.5	90	58	10	*1
T45	19	63.5	90	66	10	*1
T50	19	63.5	90	80	10	*1
T55	22	63.5	90	120	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

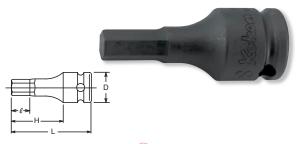
RS13025/8-L50	8 Pieces Set/Rail 200mm	Д¯Д (g)		
T20, T25, T27, T30, T40, T45, T50, T55				







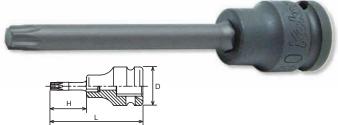












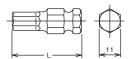




#### 107-11









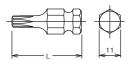
107-11 (inch)	L (mm)	(g)	(pcs.)
3/16	35	15	10
7/32	35	16	10
1/4	35	18	10
5/16	35	20	10
3/8	35	26	10
7/16	35	28	10
1/2	35	38	10
5/8	35	47	10
3/4	35	56	10

#### 107-11 (mm)

107-11(L80) (mm)	L (mm)	(g)	(pcs.)
4	80	54	10
5	80	54	10
6	80	56	10
7	80	57	10
8	80	59	10
10	80	64	10
11	80	66	10
12	80	76	10
14	80	98	10









107-11 (T)	L (mm)	(g)	(pcs.)
T25	35	18	10
T30	35	18	10
T40	35	20	10
T45	35	22	10
T50	35	26	10
T55	35	31	10
T60	35	38	10
107-11(L80) (T)	L (mm)	₫ <u>Ђ</u> (g)	(pcs.)
T30	80	54	10
T40	80	54	10

T45 T50

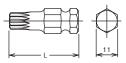
T55

T60

### 107-11 (XZN)









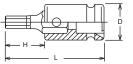
107-11 (XZN)	L (mm)	₫Д (g)	(pcs.)
M 4	35	18	10
M 5	35	20	10
M 6	35	22	10
M 8	35	26	10
M10	35	31	10
M12	35	38	10
107-11(L80) (XZN)	L (mm)	<b>△</b>	(pcs.)

107-11(L80) (XZN)	L (mm)	₫ <u>¯</u> (g)	(pcs.)
M 4	80	54	10
M 5	80	54	10
M 6	80	56	10
M 8	80	57	10
M10	80	66	10
M12	80	76	10
M14	80	80	10

IMPACT

out avec bit

Bit Holder complete with Bit



13105-11



#### \*1 \*1 \*1 \*1 \*1 \*1

13105-11 (inch)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(I)
1/4	22	22	54	89	10	*1
5/16	22	22	54	92	10	*1
3/8	22	22	54	96	10	*1
1/2	22	22	54	108	10	*1
3/4	22	22	54	128	10	*1

<sup>\*1</sup> C-Ring=1302C, Pin/O-Ring=1302A/B > P238-239

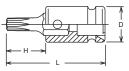
#### 13105-11 (T) T25 \*1 T30 T40 T45 \*1 T50 \*1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B

### 13105-11 (T)



Bit Holder complete with TORX® Bit Klingenhalter, komplett mit TORX® Klinge Porte embout avec bit TORX®





#### 13 32 70 10 \*1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B > P238-239

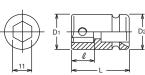


T60

Replacement Screw : M5×6, ● 2.5mm Ersatzschraube : M5×6, ● 2.5mm 

#### 









13139



Bit Holder Klingenhalter Porte-embout



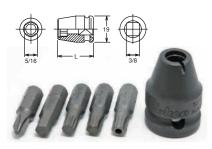


13140







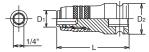


13142-D6.3



Impact Bit Holder (Quick Release) Impact Kingenhalter (Schnellwechselfutter) Porte embout Impact (mandrin autoserrant)



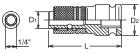


13142-F6.3



Impact Bit Holder (Quick Release) Impact Kingenhalter (Schnellwechselfutter) Porte embout Impact (mandrin autoserrant)

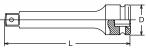




#### 13760-50P/-75P/-100P/-125P/ -150P/-200P/-250P

Extension Bars Verlängerungen Rallonges



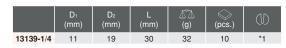


13333AL

Adaptor (Quick Release) Verbindungsstück (Quick Release) Adaptateur (Quick Release)

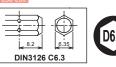






\*1 C-Ring=1301C,Pin/O-Ring=1301A/B

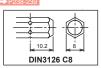
For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts



	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	Ø∄ (g)	(pcs.)	(D)
3140-5/16	14	19	30	32	10	*1

\*1 C-Ring=1301C,Pin/O-Ring=1301A/B P238-239

For DIN3126 C8 Bits Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts

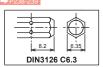






\*1 C-Ring=1301C,Pin/O-Ring=1301A/B

For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts





	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫ <u>¼</u> (g)	(pcs.)	(D)
13142-F6.3	16.5	19	45	60	10	*1

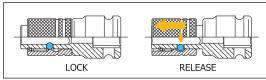
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

For DIN3126 E6.3 Bits Für DIN3126 E6.3 Bits Pour DIN3126 E6.3 Embouts





#### Lock & Quick Release



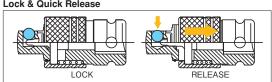
	13760 (mm)	D (mm)	L (mm)	Ø∄ (g)	(pcs.)	(V)
New	50P	22	50	70	10	*1
	75P	22	75	95	10	*1
New	100P	22	100	115	10	*1
	125P	22	125	140	10	*1
New	150P	22	150	165	10	*1
New	200P	22	200	215	10	*1
	250P	22	250	260	10	*1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P238-239



\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239



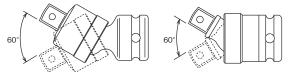


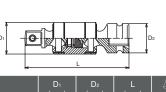
L (mm) (g) (pcs.) U

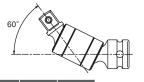
13770-P 56 110 10 \*1

13771-P 48 92 10 \*1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B







	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	W
13772-P	22	19	75	120	5	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

Make sure sockets hold bolts or nuts before operation.

Vergewissern Sie sich vor dem Gebrauch, dass der Steckschlüssel die Schraube sicher umfasst hat.

Avant la manipulation, il est nécessaire de s' assurer que la douille renferme parfaitement la vis.

	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pcs.)	W
13322A-P	3/8"	1/4"	27	25	10	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239



Adapting down from bigger square drive to smaller square drive may lead to be excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit Agekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pcs.)	W
13344A-P	3/8"	1/2"	32.5	53	10	*1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B >P238-239

13241M	11 Pieces Set/ὧੱ∄=850g
METAL CASE:W240×H30×T35mm	
Sockets	
13400M 6-pt. Sockets 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	



13770-P Universal Joint Gelenk-Einsatz Cardan universel



13771-P Universal Joint Gelenk-Einsatz Cardan universel





13772-P Universal Double Joint Doppelgelenk-Einsatz Cardan universel double



13322A-P

Adaptor Verbindungsstück Réducteur





13344A-P

Adaptor Verbindungsstück Augmentateur





13241M



Socket Set Steckschlüssel Satz Jeu de clés à douilles



13242M



Socket Set Steckschlüssel Satz Jeu de clés à douilles

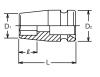


### 14400M / 14400A O



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





14400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
1/4	12	25	5	38	80	10	*1
5/16	14.5	25	6	38	85	10	*1
3/8	17	25	7	38	85	10	*1
7/16	18.2	25	8	38	85	10	*1
1/2	20.7	25	10	38	85	10	*1
9/16	22	25	10	38	85	10	*1
5/8	24.5	30	11	38	130	10	*2
11/16	25.7	30	12	38	130	10	*2
3/4	28.2	30	13	38	125	10	*2
13/16	30.7	30	14	38	120	10	*2
7/8	32	30	14	38	130	10	*2
15/16	34.5	30	14	38	135	10	*2
1	35.7	30	14	38	135	10	*2
1. 1/16	38.2	30	16	40	160	10	*2
1. 1/8	40.7	30	17	42	190	10	*2
1. 3/16	42	30	17	42	190	10	*2
1. 1/4	44.5	30	18	42	216	10	*2
1. 5/16	45.7	30	19	46	260	5	*2
1. 3/8	47	30	19	46	263	5	*2
1. 1/2	52	30	20	53	365	5	*2

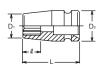
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

### 14405M / 14405A



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





14405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
5/16	14.5	25	6	38	85	10	*1
3/8	17	25	7	38	85	10	*1
7/16	18.2	25	8	38	85	10	*1
1/2	20.7	25	10	38	85	10	*1
9/16	22	25	10	38	85	10	*1
5/8	24.5	30	11	38	130	10	*2
11/16	25.7	30	12	38	130	10	*2
3/4	28.2	30	13	38	125	10	*2
13/16	30.7	30	14	38	120	10	*2
7/8	32	30	14	38	130	10	*2
15/16	34.5	30	14	38	135	10	*2
1	35.7	30	14	38	135	10	*2
1. 1/16	38.2	30	16	40	160	10	*2
1. 1/8	40.7	30	17	42	190	10	*2
1. 3/16	42	30	17	42	190	10	*2
1. 1/4	44.5	30	18	42	216	10	*2
1. 5/16	45.7	30	19	46	260	5	*2
1. 3/8	47	30	19	46	263	5	*2
1. 1/2	52	30	20	53	365	5	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

### RS14405M/11



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



					-0-	^	
14400M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	Д¯Д (g)	(pcs.)	(D)
8	14.5	25	6	38	85	10	*1
9	15.7	25	7	38	85	10	*1
10	17	25	7	38	85	10	*1
11	18.2	25	8	38	85	10	*1
12	19.5	25	9	38	85	10	*1
13	20.7	25	10	38	85	10	*1
14	22	25	10	38	85	10	*1
15	23.2	30	11	38	130	10	*2
16	24.5	30	11	38	130	10	*2
17	25.7	30	12	38	130	10	*2
18	27	30	13	38	130	10	*2
19	28.2	30	13	38	125	10	*2
20	29.5	30	13	38	127	10	*2
21	30.7	30	14	38	120	10	*2
22	32	30	14	38	130	10	*2
23	33.2	30	14	38	130	10	*2
24	34.5	30	14	38	135	10	*2
25	35.7	30	14	38	135	10	*2
26	37	30	14	38	160	10	*2
27	38.2	30	16	40	160	10	*2
28	39.5	30	16	40	170	10	*2
29	40.7	30	17	42	190	10	*2
30	42	30	17	42	190	10	*2
31	43.2	30	17	42	213	10	*2
32	44.5	30	18	42	216	10	*2
33	45.7	30	19	46	260	5	*2
34	47	30	19	46	263	5	*2
35	48.2	30	19	46	275	5	*2
36	49.5	30	20	46	285	5	*2
41	55.7	30	21	55	411	2	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

	14405M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	ⅆ
	8	14.5	25	6	38	85	10	*1
	9	15.7	25	7	38	85	10	*1
	10	17	25	7	38	85	10	*1
	11	18.2	25	8	38	84	10	*1
	12	19.5	25	9	38	84	10	*1
	13	20.7	25	10	38	84	10	*1
	14	22	25	10	38	84	10	*1
	15	23.2	30	11	38	130	10	*2
	16	24.5	30	11	38	127	10	*2
	17	25.7	30	12	38	128	10	*2
	18	27	30	13	38	130	10	*2
	19	28.2	30	13	38	125	10	*2
	20	29.5	30	13	38	127	10	*2
	21	30.7	30	14	38	120	10	*2
	22	32	30	14	38	130	10	*2
	23	33.2	30	14	38	132	10	*2
	24	34.5	30	14	38	133	10	*2
	26	37	30	14	38	147	10	*2
	27	38.2	30	16	40	157	10	*2
	28	39.5	30	16	40	170	10	*2
	30	42	30	17	42	190	10	*2
	32	44.5	30	18	42	216	10	*2
	36	49.5	30	20	46	285	5	*2
New	41	55.7	30	21	55	411	5	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

RS14405M/11	11 Pieces Set/Rail 300mm	₫∄ (g)
9,10,11,12,13,1	4,15,16,17,18,19	1,250

#### 14401M 14401A

14.2

15.5

16.7

19.2

20.5

21.7

24.2

25.5

26.7

29.2

30.5

31.7

34 2

35.5

36.7

39.2

40.5

41.7

44.2

45.5

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

RS14401M/10

D<sub>1</sub> (mm)

14.2

15.5

16.7

19.2

20.5

21.7

24.2

25.5

26.7

29.2

30.5

31.7

34 2

35.5

36.7

39.2

40.5

41.7

44.2

45.5

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

D<sub>2</sub> (mm)

10, 12, 13, 14, 17, 19, 21, 22, 24, 27

10 Pieces Set/Rail 300mm

1,010

(pcs.)

\*2

\*2

\*2 \*2

\*2

\*2

\*2

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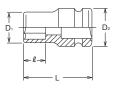
\*2

\*2



6-point Sockets, Thin Walled 6-kant Steckschlüssel, dünnwandig Douilles à paroi mince, 6-pans







14401A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	∆ Д (g)	(pcs.)	(1)
1/4	10.5	24	5	38	55	10	*1
5/16	13	24	6	38	57	10	*1
3/8	15.5	24	7	38	60	10	*1
7/16	16.7	24	8	38	62	10	*1
1/2	19.2	24	10	38	65	10	*1
9/16	20.5	24	10	38	67	10	*1
5/8	23	29	11	38	102	10	*2
11/16	24.2	29	12	38	105	10	*2
3/4	26.7	29	13	38	107	10	*2
13/16	29.2	29	14	38	109	10	*2
7/8	30.5	29	14	38	114	10	*2
15/16	33	29	14	38	122	10	*2
1	34.2	29	14	38	129	10	*2
1. 1/16	35.5	29	14	40	131	10	*2
1. 1/8	39.2	29	17	42	165	10	*2
1. 3/16	40.5	29	17	42	178	10	*2
1. 1/4	43	29	18	42	188	10	*2
1. 5/16	44.2	29	19	46	219	5	*2
1. 3/8	45.5	29	19	46	248	5	*2

<sup>\*1</sup> C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

#### RS14401M/10



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



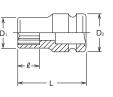


#### 14406M 14406A



12-point Sockets, Thin Walled 12-kant Steckschlüssel, dünnwandig Douilles à paroi mince, 12-pans







14406A (inch)	D <sub>1</sub> (mm)	D₂ (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
1/4	10.5	24	5	38	55	10	*1
5/16	13	24	6	38	57	10	*1
3/8	15.5	24	7	38	60	10	*1
7/16	16.7	24	8	38	62	10	*1
1/2	19.2	24	10	38	65	10	*1
9/16	20.5	24	10	38	67	10	*1
5/8	23	29	11	38	102	10	*2
11/16	24.2	29	12	38	105	10	*2
3/4	26.7	29	13	38	107	10	*2
13/16	29.2	29	14	38	109	10	*2
7/8	30.5	29	14	38	114	10	*2
15/16	33	29	14	38	122	10	*2
1	34.2	29	14	38	129	10	*2
1. 1/16	35.5	29	14	40	131	10	*2
1. 1/8	39.2	29	17	42	165	10	*2
1. 3/16	40.5	29	17	42	178	10	*2
1. 1/4	43	29	18	42	188	10	*2
1. 5/16	44.2	29	19	46	219	5	*2
1. 3/8	45.5	29	19	46	248	5	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B



Impact Steckschlüssel **Douilles Impact** 

#### 14401MS



6-point short sockets, Thin Walled 6-kant Steckschlüssel kurz, dünnwandig Douilles 6-pans courtes, à paroi mince







#### RS14401MS/5



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



### 14400MG



6-point Sockets with Magnet 6-kant Steckschlüssel mit Magnet Douilles 6-pans avec aimant



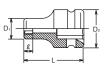


#### 14401LH ()



LHS Sockets Steckschlüssel mit LHS Profil Douilles au profil LHS



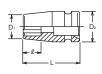


14410M



Surface Drive Sockets





### **SURFACE DRIVE**

Surface drive sockets are designed to retain contact with the flat sides of the nut in order to transmit higher torque and reduce nut wear.

These sockets are ideal for using on polished nuts, aluminum nuts and nuts with worn

Das Profil unserer Surface-Drive Steckschlüssel greift die Schraube an deren Flächen. Dies sichert eine höhere Kraftübertragung und verhindert ein Durchrutschen des Steckschlüssels. Diese Steckschlüssel eignen sich besonders für polierte Schrauben, Aluminium Schrauben und Schrauben bei denen die Ecken bereits abgerundet sind.

Notre profil Surface Drive assure le contact entre la douille et les plats de l'écrou. Ceci réduit l'usure et permet la transmission d'un couple plus élevé. C'est une solution idéale pour les écrous polies, celles en aluminium ou arrondies.

	14401MS (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
New	14	20.5	24	10	29	50	10	*1
New	17	24.2	29	10	29	85	10	*2
New	19	26.7	29	10	29	85	10	*2
New	22	30.5	29	10	29	90	10	*2
New	24	33	29	10	29	90	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

,			
	1		

RS14401MS/5	5 Pieces Set/Rail 150mm	₫∄ (g)
1	4, 17, 19, 22, 24	420

14400MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
8	14.5	25	3.5	38	95	10	*1
10	17	25	4.2	38	95	10	*1
12	19.5	25	5.6	38	100	10	*1
13	20.7	25	6	38	100	10	*1
14	22	25	6.4	38	105	10	*1
15	23.2	30	6.8	38	140	10	*2
16	24.5	30	7	38	145	10	*2
17	25.7	30	7.5	38	145	10	*2
18	27	30	7.8	38	147	10	*2
19	28.2	30	8	38	147	10	*2
21	30.7	30	13.5	38	165	10	*2

1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14401LH (LH-S)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)	W
6S	13	25	5.6	38	65	10	*1
88	16.7	25	6.8	38	69	10	*1
10S	19.2	25	8	38	75	10	*1
12S	23	30	9.2	38	115	10	*2
148	25.5	30	10.4	38	121	10	*2
16S	29.2	30	11.6	38	128	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14410M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	Д¯Д (g)	(pcs.)	W
10	17	25	7	38	100	10	*1
11	18.2	25	8	38	103	10	*1
12	19.5	25	9	38	110	10	*1
13	20.7	25	10	38	113	10	*1
14	22	25	10	38	115	10	*1
15	23.2	30	11	38	120	10	*2
16	24.5	30	11	38	120	10	*2
17	25.7	30	12	38	126	10	*2
18	27	30	13	38	121	10	*2
19	28.2	30	13	38	124	10	*2
20	29.5	30	13	38	123	10	*2
21	30.7	30	14	38	120	10	*2
22	32	30	14	38	130	10	*2
24	34.5	30	14	38	134	10	*2
25	35.7	30	14	38	135	10	*2
26	37	30	14	38	160	10	*2
27	38.2	30	16	40	160	10	*2
28	39.5	30	16	40	170	10	*2
29	40.7	30	17	42	190	10	*2
30	42	30	17	42	190	10	*2
31	43.2	30	17	42	213	10	*2
32	44.5	30	18	42	216	10	*2
34	47	30	19	46	263	5	*2
36	49.5	30	20	46	285	5	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14465M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)	ⅆ
10	17	25	8	38	89	10	*1
11	18.2	25	8	38	87	10	*1
12	19.5	25	9	38	87	10	*1
13	20.7	25	9	38	86	10	*1
14	22	25	11	38	86	10	*1
15	23.2	30	11	38	131	10	*2
16	24.5	30	11	38	131	10	*2
17	25.7	30	12	38	132	10	*2
18	27	30	13	38	128	10	*2
19	28.2	30	13	38	128	10	*2
20	29.5	30	14	38	125	10	*2
21	30.7	30	14	38	128	10	*2
22	32	30	15	38	130	10	*2
23	33.2	30	15	38	135	10	*2
24	34.5	30	15	38	135	10	*2
26	37	30	15	38	152	10	*2
27	38.2	30	16	40	169	10	*2

14415M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
14	25.7	30	10	38	138	10	*1
15	27	30	11	38	145	10	*1
16	29.5	30	11	38	150	10	*1
17	30.7	30	12	38	155	10	*1
18	32	30	13	38	165	10	*1
19	33.2	30	14	38	170	10	*1
22	38.2	30	14	40	185	10	*1
24	42	30	14	42	215	10	*1
27	45.7	30	16	46	278	5	*1
28	47	30	16	46	285	5	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
E10	14.2	25	8.2	38	86	10	*1
E11	14.7	25	8.7	38	86	10	*1
E12	15.2	25	9.3	38	85	10	*1
E14	18.2	25	10.6	38	88	10	*1
E16	19.2	25	11.8	38	88	10	*1
E18	22.2	25	13	38	89	10	*1
E20	24.2	30	14.4	38	134	10	*2
E22	26.2	30	15.5	40	140	10	*2
E24	28.2	30	17	40	138	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

_ 0 1g_	020,	O 1g-1.	02,02			
14425 (EPL)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(t
10EPL	14.5	25	6.2	38	86	
12FDI	17	25	7.2	38	86	

(EPL)	(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)	W
10EPL	14.5	25	6.2	38	86	10	*1
12EPL	17	25	7.2	38	86	10	*1
14EPL	18.2	25	8.1	38	88	10	*1
16EPL	20.7	25	9.1	38	88	10	*1
18EPL	22	25	10.2	38	90	10	*1
20EPL	24.5	30	11.2	38	135	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14400-WN	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	ⅆ
8WN	18.3	25	8	38	93	10	*1
9WN	19.5	25	9	38	93	10	*1
10WN	20.8	25	10	38	92	10	*1
12WN	24.5	30	12	38	139	10	*2
14WN	27	30	14	38	136	10	*2
17WN	32	30	17	40	150	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

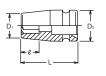
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#### 14465M



Pathfinder Sockets Pathfinder Steckschlüssel Douilles Pathfinder





### PATHFINDER®

The beveled flats of the 6-points opening of the PATHFINDER socket engage the nut almost immediately. PATHFINDER sockets are ideal for using with power tools in automatic assembly processes, as the power tool does not have to be totally stopped for the socket to engage the nut.

Da die Maschine nicht nach jedem Schraubvorgang angehalten werden muss, ergibt sich eine erhöhte Produktivität, die sich bei vollautomatischen Maschinen (Mehrspindelschrauber) ganz besonders auswirkt.

Les parois en biais des douilles en 6-pans Pathfinder assurent l'engagement quasi immédiat de l'écrou. Le fait de ne pas devoir arrêter la machine après chaque serrage, engendre une productivité supérieure dans les châines de montage

#### 14415M



Double 4-point Socket Doppelvierkant Steckschlüssel Douilles 4-pans, doubles

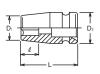




14425



TORX® Sockets TORX® Steckschlüssel Douilles TORX®





14425-EPL 🔘



TORXPLUS® Sockets TORXPLUS® Steckschlüssel Douilles TORXPLUS®





14400-WN



Weld Nut Sockets Steckschlüssel für Schweissmuttern Douille pour écrou à souder





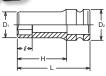
14301X (



6-point Semi-Deep Socket, Thin Walled 6-kant Steckschlüssel mittel lang, dünnwandig Douilles à paroi mince semi-longues, 6-pans







	14301X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	W
	8	13	24	8	42	60	72	10	*1
	10	15.5	24	10	42	60	79	10	*1
	11	16.7	24	11	42	60	82	10	*1
	12	18	24	12	42	60	88	10	*1
	13	19.2	24	13	42	60	92	10	*1
	14	20.5	24	14	42	60	97	10	*1
	15	21.7	29	15	42	60	125	10	*2
	16	23	29	16	42	60	135	10	*2
	17	24.2	29	17	42	60	142	10	*2
	18	25.5	29	18	42	60	148	10	*2
	19	26.7	29	19	41	60	151	10	*2
	21	29.2	29	21	41	60	170	10	*2
	22	30.5	29	22	45	65	187	10	*2
	23	31.7	29	23	45	65	192	10	*2
	24	33	29	24	45	65	202	10	*2
	26	35.5	29	26	44	65	218	10	*2
	27	36.7	29	27	44	65	231	10	*2
New	30	40.5	29	30	44	65	268	10	*2
New	32	43	29	32	44	65	296	10	*2
New	36	48	29	36	44	65	350	2	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

R\$14301X/10 🔘 📖



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



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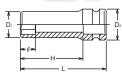
RS14301X/10	10 Pieces Set/Rail 300mm	₫₫ (g)
10, 12, 13, 14, 17, 19,	21, 22, 24, 27	1,585

### 14300M / 14300A 🔘



6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans





14300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)	(1)
5/16	14.5	25	8	62	80	137	10	*1
3/8	17	25	10	62	80	140	10	*1
7/16	18.2	25	11	62	80	156	10	*1
1/2	20.7	25	13	62	80	162	10	*1
9/16	22	25	14	62	80	174	10	*1
5/8	24.5	30	16	62	80	232	10	*2
11/16	25.7	30	17	62	80	232	10	*2
3/4	28.2	30	19	61	80	259	10	*2
13/16	30.7	30	21	61	80	265	10	*2
7/8	32	30	22	65	85	290	10	*2
15/16	34.5	30	24	65	85	329	10	*2
1	35.7	30	25	65	85	345	10	*2
1. 1/16	38.2	30	27	64	85	385	10	*2
1. 1/8	40.7	30	29	63	85	416	10	*2
1. 3/16	42	30	30	63	85	457	10	*2
1. 1/4	44.5	30	32	63	85	542	10	*2
1. 7/16	50.7	30	37	61	85	580	2	*2
1. 1/2	52	30	38	61	85	600	2	*2

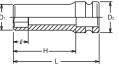
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B 
\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
8	14.5	25	8	62	80	137	10	*1
9	15.7	25	9	62	80	138	10	*1
10	17	25	10	62	80	140	10	*1
11	18.2	25	11	62	80	156	10	*1
12	19.5	25	12	62	80	162	10	*1
13	20.7	25	13	62	80	162	10	*1
14	22	25	14	62	80	174	10	*1
15	23.2	30	15	62	80	220	10	*2
16	24.5	30	16	62	80	232	10	*2
17	25.7	30	17	62	80	232	10	*2
18	27	30	18	62	80	232	10	*2
19	28.2	30	19	61	80	259	10	*2
20	29.5	30	20	61	80	265	10	*2
21	30.7	30	21	61	80	265	10	*2
22	32	30	22	65	85	290	10	*2
23	33.2	30	23	65	85	300	10	*2
24	34.5	30	24	65	85	329	10	*2
25	35.7	30	25	65	85	345	10	*2
26	37	30	26	64	85	350	10	*2
27	38.2	30	27	64	85	385	10	*2
28	39.5	30	28	64	85	390	10	*2
29	40.7	30	29	63	85	416	10	*2
30	42	30	30	63	85	457	10	*2
31	43.2	30	31	63	85	505	10	*2
32	44.5	30	32	63	85	542	10	*2
33	45.7	30	33	62	85	562	2	*2
34	47	30	33	62	85	570	2	*2
35	48.2	30	35	62	85	600	2	*2
36	49.5	30	36	61	85	640	2	*2
41	55.7	30	38	60	85	690	2	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14301M / 14301A

	86
7	7



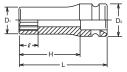
14301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(I)
3/8	15.5	24	10	62	80	98	10	*1
7/16	16.7	24	11	62	80	104	10	*1
1/2	19.2	24	13	62	80	120	10	*1
9/16	20.5	24	14	62	80	127	10	*1
5/8	23	29	16	62	80	173	10	*2
11/16	24.2	29	17	62	80	182	10	*2
3/4	26.7	29	19	61	80	197	10	*2
13/16	29.2	29	21	61	80	218	10	*2
7/8	30.5	29	22	65	85	244	10	*2
15/16	33	29	24	65	85	261	10	*2
1. 1/16	36.7	29	27	64	85	314	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

### 14305M

12-point Deep Sockets 12-kant Steckschlüssel,lang Douilles longues 12-pans





### 14306M







<b>↑</b>		
<u>\</u>		
	< H	<b>→</b>
	<b>←</b> —L-	>

14301M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	$(\mathbb{I})$
8	13	24	8	62	80	87	10	*1
9	14.2	24	9	62	80	92	10	*1
10	15.5	24	10	62	80	98	10	*1
11	16.7	24	11	62	80	104	10	*1
12	18	24	12	62	80	111	10	*1
13	19.2	24	13	62	80	120	10	*1
14	20.5	24	14	62	80	127	10	*1
15	21.7	29	15	62	80	169	10	*2
16	23	29	16	62	80	173	10	*2
17	24.2	29	17	62	80	182	10	*2
18	25.5	29	18	62	80	192	10	*2
19	26.7	29	19	61	80	197	10	*2
20	28	29	20	61	80	203	10	*2
21	29.2	29	21	61	80	218	10	*2
22	30.5	29	22	65	85	244	10	*2
23	31.7	29	23	65	85	253	10	*2
24	33	29	24	65	85	261	10	*2
25	34.2	29	25	65	85	282	10	*2
26	35.5	29	26	64	85	299	10	*2
27	36.7	29	27	64	85	314	10	*2
28	38	29	29	64	85	273	10	*2
29	39.2	29	29	63	85	280	10	*2
30	40.5	29	30	63	85	360	10	*2
31	41.7	29	31	63	85	370	10	*2
32	43	29	32	63	85	380	10	*2
34	45.5	29	34	62	85	411	2	*2
35	46.7	29	35	62	85	450	2	*2
36	48	29	36	61	85	460	2	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
8	14.5	25	8	62	80	137	10	*1
10	17	25	10	62	80	140	10	*1
11	18.2	25	11	62	80	156	10	*1
12	19.5	25	12	62	80	162	10	*1
13	20.7	25	13	62	80	162	10	*1
14	22	25	14	62	80	174	10	*1
15	23.2	30	15	62	80	220	10	*2
16	24.5	30	16	62	80	232	10	*2
17	25.7	30	17	62	80	232	10	*2
18	27	30	18	62	80	232	10	*2
19	28.2	30	19	61	80	259	10	*2
20	29.5	30	20	61	80	265	10	*2
21	30.7	30	21	61	80	265	10	*2
22	32	30	22	65	85	290	10	*2
24	34.5	30	24	65	85	329	10	*2
27	38.2	30	27	64	85	385	10	*2
28	39.5	30	28	64	85	390	10	*2
30	42	30	30	63	85	457	10	*2
32	44.5	30	32	63	85	542	10	*2
36	49.5	30	36	61	85	635	2	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14306M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	ДĨД (g)	(pcs.)	(D)
10	15.5	24	10	62	80	98	10	*1
12	18	24	12	62	80	111	10	*1
13	19.2	24	13	62	80	120	10	*1
14	20.5	24	14	62	80	127	10	*1
15	21.7	29	15	62	80	169	10	*2
16	23	29	16	62	80	173	10	*2
17	24.2	29	17	62	80	182	10	*2
18	25.5	29	18	62	80	192	10	*2
19	26.7	29	19	61	80	197	10	*2
21	29.2	29	21	61	80	218	10	*2
22	30.5	29	22	65	85	244	10	*2
24	33	29	24	65	85	261	10	*2
27	36.7	29	27	64	85	314	10	*2
30	40.5	29	30	63	85	360	10	*2
32	43	29	32	63	85	380	10	*2

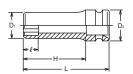
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

#### 14310M (



Surface Drive Sockets, deep Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive



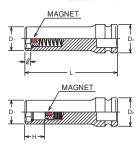


#### 14300G 🔘



Impact Socket with Sliding Magnet Impact Steckschlüssel mit versenkbarem Magnet Douilles Impact avec aimant, glissant pour écrous



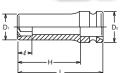


#### 14365M ()



Pathfinder Sockets, deep Pathfinder Steckschlüssel, lang Douilles longues, Pathfinder



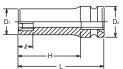


#### 14325 🔘



TORX® Deep Sockets TORX® Steckschlüssel, lang Douilles longues TORX®





14310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
10	17	25	10	62	80	136	10	*1
11	18.2	25	11	62	80	148	10	*1
12	19.5	25	12	62	80	156	10	*1
13	20.7	25	13	62	80	158	10	*1
14	22	25	14	62	80	170	10	*1
15	23.2	30	15	62	80	225	10	*2
16	24.5	30	16	62	80	228	10	*2
17	25.7	30	17	62	80	232	10	*2
18	27	30	18	62	80	232	10	*2
19	28.2	30	19	61	80	252	10	*2
20	29.5	30	20	61	80	260	10	*2
21	30.7	30	21	61	80	260	10	*2
22	32	30	22	65	85	290	10	*2
23	33.2	30	23	65	85	300	10	*2
24	34.5	30	24	65	85	322	10	*2
25	35.7	30	25	65	85	338	10	*2
26	37	30	26	64	85	350	10	*2
27	38.2	30	27	64	85	380	10	*2
28	39.5	30	28	64	85	390	10	*2
29	40.7	30	29	63	85	416	10	*2
30	42	30	30	63	85	450	10	*2
31	43.2	30	31	63	85	505	10	*2
32	44.5	30	32	63	85	535	10	*2
34	47	30	34	62	85	563	2	*2
36	49.5	30	36	61	85	630	2	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

	14300G (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)t	L (mm)t	₫∄ (g)	(pcs.)	(D)
	10	17	25	4.5	26	80	139	10	*1
	12	19.5	25	6	26	80	165	10	*1
	13	20.7	25	6.5	25	80	185	10	*1
	14	22	25	7	24	80	189	10	*1
New	15	23.2	30	7	24	80	240	10	*2
	16	24.5	30	7.5	26.5	80	270	10	*2
	17	25.7	30	8	26.5	80	272	10	*2
	18	27	30	8.5	26.5	80	290	10	*2
	19	28.2	30	9	27.5	80	308	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14365M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
10	17	25	8	62	80	138	10	*1
11	18.2	25	8	62	80	144	10	*1
12	19.5	25	9	62	80	165	10	*1
13	20.7	25	9	62	80	170	10	*1
14	22	25	11	62	80	178	10	*1
15	23.2	30	11	62	80	237	10	*2
16	24.5	30	11	62	80	245	10	*2
17	25.7	30	12	62	80	263	10	*2
18	27	30	13	62	80	268	10	*2
19	28.2	30	13	61	80	270	10	*2
20	29.5	30	14	61	80	274	10	*2
21	30.7	30	14	61	80	287	10	*2
22	32	30	15	65	85	314	10	*2
23	33.2	30	15	65	85	320	10	*2
24	34.5	30	15	65	85	335	10	*2
26	37	30	15	64	85	388	10	*2
27	38.2	30	16	64	85	407	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)	(D)
E10	14.2	25	8.2	62	80	136	10	*1
E12	15.2	25	9.3	62	80	141	10	*1
E14	18.2	25	10.6	62	80	147	10	*1
E16	19.2	25	11.8	62	80	151	10	*1
E18	22.2	25	13	62	80	218	10	*1
E20	24.2	30	14.4	62	80	225	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

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TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

#### 14440M (g) (mm) (mm) 13 20.7 210 10 14 22 69.5 15 23.2 69.5 210 10 16 24.5 8 69.5 206 10 17 25.7 8 69.5 220 10 18 27 69.5 218 10 19 28.2 10 73.5 260 10 20 29.5 10 73.5 270 10 21 30.7 11 73.5 280 10 22 32 13 73.5 290 10 24 34.5 14 73.5 300 10

14440A (inch)	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	W
1/2	20.7	6	67.5	210	10	*1
9/16	22	7	69.5	210	10	*1
5/8	24.5	8	69.5	206	10	*1
11/16	25.7	8	69.5	220	10	*1
3/4	28.2	10	73.5	260	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14100M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	Ø∄ (g)	(pcs.)	(I)
6	24	25	48	126	10	*1
7	24	25	48	126	10	*1
8	24	25	48	122	10	*1
9	28	30	48	181	10	*2
10	28	30	48	181	10	*2
12	28	30	48	175	10	*2

14100A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	W
1/4	24	25	48	126	10	*1
5/16	24	25	48	122	10	*1
3/8	28	30	48	181	10	*2
7/16	28	30	48	181	10	*2
1/2	28	30	48	180	10	*2

\*1 C-Ring=1401C,Pin/O-Ring=1401A/B

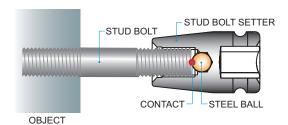
\*2 C-Ring=1402C,Pin/O-Ring=1402A/B

#### Tolerance

	00M nm)	14100A (inch)		
6	5.6- 6	1/4	6 - 6.4	
7	6.6- 7	5/16	7.6- 8	
8	7.6- 8	3/8	9 - 9.6	
9	8.4- 9	7/16	10.5-11.1	
10	9.4-10	1/2	12.1-12.7	
12	11.4-12			

14103M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
6(1.0)	12	25	10	38	75	10	*1
7(1.0)	13.2	25	11.4	38	78	10	*1
8(1.25)	14.5	25	11.5	38	81	10	*1
10(1.25)	17	25	13.5	44	106	10	*1
10(1.5)	17	25	13.5	44	106	10	*1
12(1.25)	19.5	25	15.5	44	107	10	*1
12(1.75)	19.5	25	15.5	44	107	10	*1
14(1.5)	22	25	18.2	48	128	10	*1
14(2.0)	22	25	18.2	48	128	10	*1

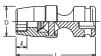
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239



#### 14440M / 14440A



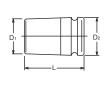




#### 14100M / 14100A



Impact Screw and Stud Pullers Impact Stehbolzendreher Extracteurs de goujons Impact









Hexagon body design can lessen the excessive load on cages and rollers inside the pullers.

Der neue Körper mit sechs Walzenmulden verteilt den Druck auf den Käfig und die Walzen weitaus vorteilhafter.

La forme hexagonale du corps améliore les tolérances.

Elle répartit l'effort de façon plus uniforme sur la cage et les rouleaux.

#### 14103M



Impact Stud Bolt Setters Impact Stehbolzensetze Monte-goujons Impact



A special socket for installing a stud bolt.

Inside steel ball prevent the stud bolt stuck onto the socket. After installing a stud bolt, turn to anti-clockwise to removing the socket.

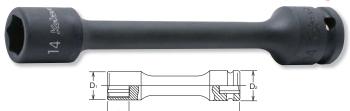
Spezialwerkzeug zum Setzen von Stehbolzen. Der Bolzen trifft im Werkzeug nur auf den Stahlbolzen, was die Kontaktfläche verringert. Nach dem Setzen des Stehbolzens kann das Werkzeug im Linkslauf vom Stehbolzen abgezogen werden.

Douilles spéciales pour monter les goujons.

Le goujon est en contact avec une bille d'acier pour l'empêcher d'adhérer à la douille. Après avoir posé le goujon, tourner dans le sens antihorlogique pour le retirer

# 





	14145M-100 (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pce.)	W
New	10	17	25	10	100	155	1	*1
New	12	19.5	25	12	100	165	1	*1
New	14	22	25	14	100	180	1	*1
New	17	25.7	25	17	100	210	1	*1
New	19	28.2	25	19	100	230	1	*1

14145M-150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	(1)
10	17	25	10	150	190	1	*1
12	19.5	25	12	150	204	1	*1
13	20.7	25	13	150	216	1	*1
14	22	25	14	150	228	1	*1
15	23.2	25	15	150	240	1	*1
16	24.5	25	16	150	245	1	*1
17	25.7	25	17	150	253	1	*1
18	27	25	18	150	260	1	*1
19	28.2	25	19	150	267	1	*1

14145M-200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	W
10	17	25	10	200	234	1	*1
12	19.5	25	12	200	248	1	*1
13	20.7	25	13	200	260	1	*1
14	22	25	14	200	272	1	*1
15	23.2	25	15	200	284	1	*1
16	24.5	25	16	200	290	1	*1
17	25.7	25	17	200	297	1	*1
18	27	25	18	200	305	1	*1
19	28.2	25	19	200	311	1	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239

14145M-250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	(D)
10	17	25	10	250	278	1	*1
12	19.5	25	12	250	292	1	*1
13	20.7	25	13	250	304	1	*1
14	22	25	14	250	316	1	*1
15	23.2	25	15	250	328	1	*1
16	24.5	25	16	250	335	1	*1
17	25.7	25	17	250	341	1	*1
18	27	25	18	250	350	1	*1
19	28.2	25	19	250	355	1	*1

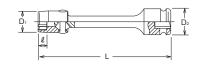
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B >P238-239



### 14146M-150/-200/-250

Extra Long Universal Sockets Schaftsteckschlüssel mit Gelenk Douilles, articulées, série allongée





14146M-150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pce.)	W
10	16	25	6.5	150	197	1	*1
12	19.3	25	7.5	150	200	1	*1
13	20	25	8	150	201	1	*1
14	21	25	8.5	150	203	1	*1
15	22	25	9	150	201	1	*1
16	23	25	9.5	150	200	1	*1
17	25	25	9.5	150	200	1	*1
18	26	25	11	150	210	1	*1
19	28	25	11.5	150	210	1	*1

14146M-200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pce.)	ⅆ
10	16	25	6.5	200	241	1	*1
12	19.3	25	7.5	200	244	1	*1
13	20	25	8	200	245	1	*1
14	21	25	8.5	200	247	1	*1
15	22	25	9	200	245	1	*1
16	23	25	9.5	200	244	1	*1
17	25	25	9.5	200	244	1	*1
18	26	25	11	200	250	1	*1
19	28	25	11.5	200	254	1	*1

<sup>\*1</sup> C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239

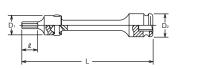
14146M-250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(1)
10	16	25	6.5	250	285	1	*1
12	19.3	25	7.5	250	288	1	*1
13	20	25	8	250	289	1	*1
14	21	25	8.5	250	291	1	*1
15	22	25	9	250	289	1	*1
16	23	25	9.5	250	288	1	*1
17	25	25	9.5	250	288	1	*1
18	26	25	11	250	290	1	*1
19	28	25	11.5	250	299	1	*1

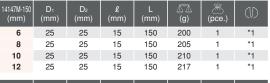
<sup>\*1</sup> C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239

### 14147M-150/-200









14147M-200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
6	25	25	15	200	244	1	*1
8	25	25	15	200	249	1	*1
10	25	25	15	200	254	1	*1
12	25	25	15	200	261	1	*1

<sup>\*1</sup> C-Ring=1401C, Pin/O-Ring=1401A/B -> P238-239

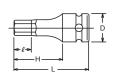
Impact Steckschlüssel

#### 14012M-60



Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux





14012M-60 (mm)	D (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
4	25	15.5	38	60	68	10	*1
5	25	15.5	38	60	71	10	*1
6	25	15.5	38	60	74	10	*1
7	25	15.5	38	60	80	10	*1
8	25	15.5	38	60	84	10	*1
10	30	15.5	38	60	140	10	*2
12	30	15.5	38	60	150	10	*2
14	30	15.5	38	60	170	10	*2
17	30	15.5	38	60	190	10	*2
19	30	15.5	38	60	210	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## RS14012M/10-L60 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



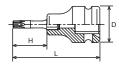


RS14012M/10-L60 10 Pieces Set/Rail 300mm (g) 4, 5, 6, 7, 8, 10, 12, 14, 17, 19 1,300



14025-60/-100 TORX® Bit Sockets TORX® Bit-Steckschlüssel Douilles tournevis, TORX®





14025-60 (T)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
T20	25	23.5	60	75	10	*1
T25	25	23.5	60	75	10	*1
T27	25	23.5	60	75	10	*1
T30	25	23.5	60	80	10	*1
T40	25	23.5	60	85	10	*1
T45	25	23.5	60	85	10	*1
T50	25	23.5	60	95	10	*1
T55	25	23.5	60	110	10	*1
T60	30	23.5	60	160	10	*2

14025-100 (T)	D (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)	W
T30	25	73.5	100	85	10	*1
T40	25	73.5	100	95	10	*1
T45	25	73.5	100	102	10	*1
T50	25	73.5	100	120	10	*1
T55	25	73.5	100	155	10	*1
T60	30	73.5	100	220	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B 
\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

### RS14025/6-L60 (\*)



Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



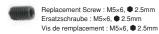
RS14025/6-L60	6 Pieces Set/Rail 200mm	(g)		
T30, T40, T45, T50, T55,T60				

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\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239



	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
14105L	22	30	13	43	160	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

107-11 (mm)	L (mm)	Д°Д (g)	(pcs.)
3	35	15	10
4	35	16	10
5	35	16	10
6	35	18	10
7	35	19	10
8	35	20	10
10	35	26	10
11	35	28	10
12	35	31	10
14	35	38	10
16	35	47	10
17	35	50	10
18	35	53	10
19	35	56	10

107-11(L80) (mm)	L (mm)	Д <sup>™</sup> Д (g)	(pcs.)
4	80	54	10
5	80	54	10
6	80	56	10
7	80	57	10
8	80	59	10
10	80	64	10
11	80	66	10
12	80	76	10
14	80	98	10

107-11 (T)	L (mm)	₫ <u>⊅</u> (g)	(pcs.)
T25	35	18	10
T30	35	18	10
T40	35	20	10
T45	35	22	10
T50	35	26	10
T55	35	31	10
T60	35	38	10
107-11(L80) (T)	L (mm)	(g) (D)	(pcs.)
T30	80	54	10
T40	80	54	10
T45	80	56	10
T50	80	57	10

66

80

80

80

80

80

80

T60

M 8

M10

M12

M14

107-11 (XZN)	L (mm)	₫ <u>⊅</u> (g)	(pcs.)
M 4	35	18	10
M 5	35	20	10
M 6	35	22	10
M 8	35	26	10
M10	35	31	10
M12	35	38	10
107-11(L80) (XZN)	L (mm)	₫∄ (g)	(pcs.)
M 4	80	54	10
M 5	80	54	10
M 6	80	56	10

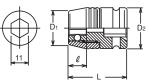




14105L



Bit Holder (Quick Release) Klingenhalter mit Schnellwechselfutter Porte embout (Quick Release)





107-11



Bits for Inhex Screws Klingen für Innensechskant-Schrauben Embouts pour vis 6-pans males creux

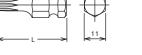


107-11 (inch)	L (mm)	(g) (\overline{A}	(pcs.)
3/16	35	16	10
7/32	35	16	10
1/4	35	18	10
5/16	35	20	10
3/8	35	26	10
7/16	35	28	10
1/2	35	38	10
5/8	35	47	10
3/4	35	56	10



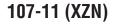






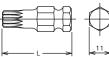


















66

76

80

10

10

10

10

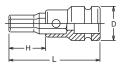
Impact Steckschlüssel

#### 14105-11



Bit Holder complete with Bit Klingenhalter, komplett mit Klinge Porte embouts avec bit





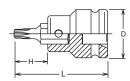
14105-11 (inch)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
1/4	30	22	60	144	10	*1
5/16	30	22	60	146	10	*1
3/8	30	22	60	152	10	*1
1/2	30	22	60	164	10	*1
3/4	30	22	60	182	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P238-239

14105-11 (T)

Bit Holder complete with TORX® Bit Klingenhalter, komplett mit TORX® Klinge Porte embouts avec bit TORX®

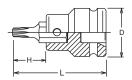


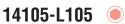


14105-11 (XZN)

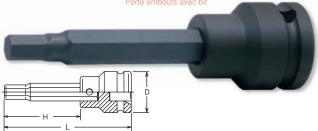












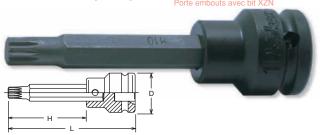
14105-L105 (T)





14105-L105 (XZN)





14105-11 (mm)	D (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)	(1)
3	30	22	60	141	10	*1
4	30	22	60	142	10	*1
5	30	22	60	142	10	*1
6	30	22	60	144	10	*1
7	30	22	60	145	10	*1
8	30	22	60	146	10	*1
10	30	22	60	152	10	*1
11	30	22	60	154	10	*1
12	30	22	60	157	10	*1
14	30	22	60	164	10	*1
16	30	22	60	173	10	*1
17	30	22	60	176	10	*1
18	30	22	60	179	10	*1
19	30	22	60	182	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14105-11 (T)	D (mm)	H (mm)	L (mm)	ДД (g)	⇔ (pcs.)	(1)
T25	30	22	60	144	10	*1
T30	30	22	60	144	10	*1
T40	30	22	60	146	10	*1
T45	30	22	60	152	10	*1
T50	30	22	60	157	10	*1
T55	30	22	60	160	10	*1
T60	30	22	60	164	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14105-11 (XZN)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	W
M 4	30	22	60	144	10	*1
M 5	30	22	60	146	10	*1
M 6	30	22	60	152	10	*1
M 8	30	22	60	157	10	*1
M10	30	22	60	160	10	*1
M12	30	22	60	164	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14105(L105) (mm)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	W
4	30	67	105	180	10	*1
5	30	67	105	180	10	*1
6	30	67	105	185	10	*1
7	30	67	105	185	10	*1
8	30	67	105	185	10	*1
10	30	67	105	190	10	*1
11	30	67	105	190	10	*1
12	30	67	105	200	10	*1
14	30	67	105	230	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

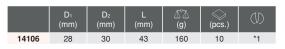
14105(L105) (T)	D (mm)	H (mm)	L (mm)	(g)	(pcs.)	W
T30	30	67	105	180	10	*1
T40	30	67	105	180	10	*1
T45	30	67	105	185	10	*1
T50	30	67	105	185	10	*1
T55	30	67	105	195	10	*1
T60	30	67	105	205	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14105(L105) (XZN)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
M 4	30	67	105	180	10	*1
M 5	30	67	105	180	10	*1
M 6	30	67	105	185	10	*1
M 8	30	67	105	185	10	*1
M10	30	67	105	195	10	*1
M12	30	67	105	205	10	*1
M14	30	67	105	210	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

TORX\* is a registered trademark of Acument Intellectual Properties, LLC.
TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.



\*1 C-Ring=1402C, Pin/O-Ring=1402A/B >P238-239

Replacement Screw : M6×8, ● 3mm Ersatzschraube : M6×8, ● 3mm Vis de remplacement : M6×8, ● 3mm



107-16 (mm)	L (mm)	Д́Д (g)	(pcs.)
10	40	46	10
12	40	52	10
13	40	56	10
14	40	60	10
16	40	69	10
17	40	73	10
18	40	78	10
19	40	80	10
22	40	97	10

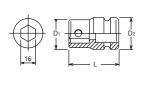
107-16 (inch)	L (mm)	₫Д (g)	(pcs.)
1/2	40	56	10
9/16	40	60	10
5/8	40	69	10
3/4	40	80	10

107-16 (T)	L (mm)	₫ <u>¼</u> (g)	(pcs.)
T55	50	57	10
T60	50	64	10
T70	50	73	10

	107-16 (IP)	L (mm)	(g) (\alpha\alpha	(pcs.)
New	55IP	50	57	10
New	60IP	50	64	10
New	70IP	50	73	10

107-16 (XZN)	L (mm)	₫ <u>¯</u> (g)	(pcs.)
M14	60	83	10
M16	60	93	10
M18	60	103	10

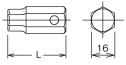
Bit Holder Klingenhalter Porte-embouts 14106





107-16

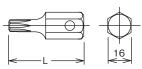






107-16 (T)



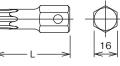




107-16 (IP)





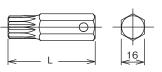




107-16 (XZN)



Bits XZN Klingen XZN Embouts de vissage, XZN

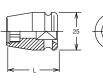




Bit Holder Klingenhalter Porte-embouts 14139





















For DIN3126 C6.3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts

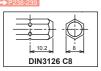




	D <sub>1</sub> (mm)	D₂ (mm)	L (mm)	₫¼ (g)	(pcs.)	W
14140-5/16	14	25	38	62	10	*1

\*1 C-Ring=1401C,Pin/O-Ring=1401A/B > P238-239

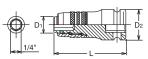
For DIN3126 C8 Bits Für DIN3126 C8 Bits Pour DIN3126 C8 Embouts







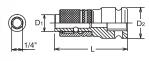




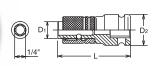












14760-50P/-75P/-100P/-125P/-150P/ Extension Bars Verlängerungen Rallonges -175P/-200P/-250P



Adaptor (Quick Release) Verbindungsstück (Quick Release) Adaptateur (Quick Release) 14444AL







	D₁ (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	W
14142-D6.3	16	25	55	97	10	*1

\*1 C-Ring=1401C,Pin/O-Ring=1401A/B P238-239

For DIN3126 C6 3 Bits Für DIN3126 C6.3 Bits Pour DIN3126 C6.3 Embouts





	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	Д°Д (g)	(pcs.)	(1)
14142-F6.3	16.5	25	55	100	10	*1

\*1 C-Ring=1401C,Pin/O-Ring=1401A/B > P238-239

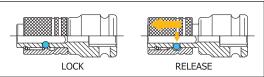
For DIN3126 E6.3 Bits Für DIN3126 E6.3 Bits Pour DIN3126 E6.3 Embouts







Lock & Quick Release

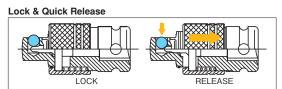


14760	D (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
50P	30	50	150	10	*1
75P	30	75	188	10	*1
100P	30	100	240	10	*1
125P	30	125	275	5	*1
150P	30	150	300	5	*1
175P	30	175	358	5	*1
200P	30	200	405	5	*1
250P	30	250	480	1	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

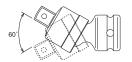
	L (mm)	₫ <sup>™</sup> Д (g)	(pcs.)	(1)
14444AL	60	128	5	*1

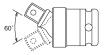
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239



	L (mm)	Д¯Д (g)	(pcs.)	Ѿ
14770-P	74	210	5	*1
14771-P	65	198	5	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239





	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)	W
14772-P	27	25	90	230	5	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239



Make sure sockets hold bolts or nuts before operation.

Vergewissern Sie sich vor dem Gebrauch, dass der Steckschlüssel die Schraube sicher

Avant la manipulation, il est nécessaire de s'assurer que la douille renferme parfaitement la vis

	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pcs.)	W
14433A-P	1/2"	3/8"	37.5	68	10	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239



Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit 🛕 gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués 🚹 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

	回 (sq.)	凸 (sq.)	L (mm)	Ø∄ (g)	(pcs.)	W
14455A	1/2"	5/8"	42	135	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

	凹 (sq.)	凸 (sq.)	L (mm)	₫∄ (g)	(pcs.)	W
14466A	1/2"	3/4"	44	146	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14770-P





14771-P

Universal Joint Gelenk-Einsatz Cardan universel

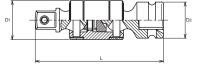


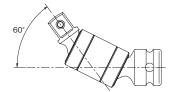


14772-P

Universal Double Joint Doppelgelenk-Einsatz Cardan universel double







14433A-P

Adaptor Verbindungsstück Réducteur







14455A

Adaptor Verbindungsstück Augmentateur





14466A

Adaptor Verbindungsstück Augmentateur





Impact Steckschlüssel





14203M	10 Pieces Set/ὧ∆=900g
METAL CASE: W190×H59×T45mm	
Bits	Bit Holder
107.11 Hex Bits 5, 6, 8, 10	14105 Bit Holder
107.16 Hex Bits 12, 14, 17, 19	14106 Bit Holder





14204M	18 Pieces Set/ຝື∄=1,370g
METAL CASE:W310×H90×T48mm	
Bits	Bit Holder
107.11 Hex Bits 4, 5, 6, 7, 8, 10, 12, 14	14105 Bit Holder
107.11 (L80) Hex Bits 4, 5, 6, 7, 8, 10, 12, 14	168H-2.5 (40) Screwdriver

#### 14204T (\*)





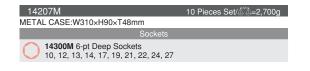
14204T	14 Pieces Set/ὧ∄=1,180g
METAL CASE:W310×H90×T48mm	
Bits	Bit Holder
107.11 (T) TORX® Bits T30, T40, T45, T50, T55, T60	14105 Bit Holder
107.11 (L80) TORX® Bits T30, T40, T45, T50, T55, T60	168H-2.5 (40) Screwdriver



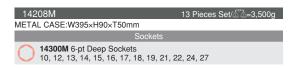


14204X	14 Pieces Set/ຝື∆=1,180g
METAL CASE:W310×H90×T48mm	
Bits	Bit Holder
107.11 (XZN) XZN Bits M4, M5, M6, M8, M10, M12	14105 Bit Holder
107.11 (L80) XZN Bits M4, M5, M6, M8, M10, M12	168H-2.5 (40) Screwdriver

# Impact Steckschlüssel

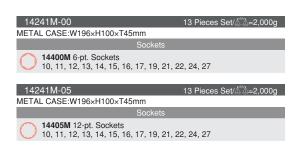






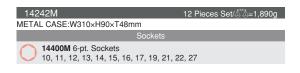






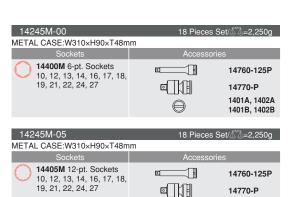
14241M-00 14241M-05











1401A, 1402A 1401B, 1402B





#### 15400M (



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans



<b>T</b>
D <sub>1</sub> D <sub>2</sub>
-1-
L

15400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)	(1)
14	24	35	10	47.5	220	5	*1
17	27.8	35	12	47.5	225	5	*1
19	30.3	35	13	47.5	225	5	*1
21	32.8	35	15	47.5	225	5	*1
22	34	35	15	47.5	225	5	*1
23	35.4	35	16	47.5	225	5	*1
24	36.5	35	16	50.5	245	5	*1
26	39	35	16	50.5	260	1	*1

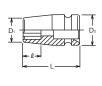
\*1 Pin/O-Ring=1500A/B -> P239

#### 15410M ()



Surface Drive Sockets Surface Drive Steckschlüssel Douilles, Surface Drive





15410M (mm)	D <sub>1</sub> (mm)	D₂ (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
14	24	35	10	47.5	220	5	*1
17	27.8	35	12	47.5	225	5	*1
19	30.3	35	13	47.5	225	5	*1
21	32.8	35	15	47.5	225	5	*1
22	34	35	15	47.5	225	5	*1
23	35.4	35	16	47.5	225	5	*1
24	36.5	35	16	50.5	245	5	*1
26	39	35	16	50.5	260	5	*1

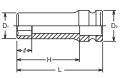
\*1 Pin/O-Ring=1500A/B >P239

### 15300M 🔘



6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans





15300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
14	24	35	14	71	90	295	2	*1
17	27.8	35	17	71	90	325	2	*1
19	30.3	35	19	71	90	350	2	*1
21	32.8	35	21	71	90	380	2	*1
22	34	35	22	71	90	390	2	*1

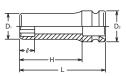
\*1 Pin/O-Ring=1500A/B > P239

#### 15310M 🔘



Surface Drive Sockets, deep Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive





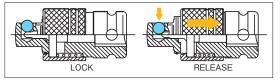
15310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	W
14	24	35	14	71	90	295	2	*1
17	27.8	35	17	71	90	325	2	*1
19	30.3	35	19	71	90	350	2	*1
21	32.8	35	21	71	90	380	2	*1
22	34	35	22	71	90	390	2	*1

\*1 Pin/O-Ring=1500A/B > P239

#### 15555AL 70 310

\*1 Pin/O-Ring=1500A/B -> P239

#### Lock & Quick Release



	L (mm)	Д¯Д (g)	(pce.)	W
15770	88	420	1	*1

\*1 Pin/O-Ring=1500A/B > P239

	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pce.)	W
15544A-P	5/8"	1/2"	46	165	1	*1

\*1 Pin/O-Ring=1500A/B > P239



Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit ⚠ gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués 🗥 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures

	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pce.)	(1)
15566A	5/8"	3/4"	48	200	1	*1

\*1 Pin/O-Ring=1500A/B > P239

#### 15555AL

Adaptor (Quick Release) Schnellwechsel-Verbindungsstück (Quick Release) Adaptateur (Quick Release)





#### 15770

Universal Joint Gelenk-Einsatz Cardan universel





#### 15544A-P

Adaptor Verbindungsstück Réducteur

No Warranty Keine Garantie Sans Garantie





### 15566A

Adaptor Verbindungsstück Augmentáteur



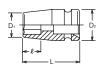


Impact Steckschlüssel Douilles Impact

### 16400M / 16400A O





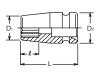


16400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫₫ (g)	(pcs.)	W
11/16	30	44	12	50	355	5	*1
3/4	32.5	44	13	50	360	5	*1
13/16	35	44	15	50	374	5	*1
7/8	36.3	44	15	50	373	5	*1
15/16	38.8	44	16	50	370	5	*1
1	40	44	16	50	374	5	*1
1. 1/16	42.5	44	16	50	375	5	*1
1. 1/8	45	44	18	53	412	5	*1
1. 3/16	46.3	44	18	53	410	5	*1
1. 1/4	48.8	44	19	53	428	5	*1
1. 5/16	51.3	44	20	55	490	5	*1
1. 3/8	52.5	44	20	55	494	5	*1
1. 7/16	55	44	20	55	526	2	*1
1. 1/2	56.3	44	20	57	558	2	*1
1. 9/16	58.8	44	20	57	598	2	*1
1. 5/8	60	44	22	57	572	2	*1
1.11/16	62.5	44	23	62	720	2	*1
1. 3/4	65	44	23	62	757	2	*1
1.13/16	66.3	44	23	62	755	2	*1
1. 7/8	68.8	54	23	62	940	2	*2
1.15/16	70	54	23	62	912	2	*2
2	72.5	54	30	62	969	2	*2
2. 1/16	73.8	54	29	62	1011	2	*2
2. 1/8	76.3	54	29	62	1035	2	*2
2. 3/16	77.5	54	29	62	1056	2	*2
2. 1/4	80	54	32	65	1126	2	*2
2. 5/16	81.3	54	31	65	1163	2	*2
2. 3/8	83.8	54	31	65	1215	2	*2

### 16405M / 16405A 🔘







16405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)	W
3/4	32.5	44	13	50	360	5	*1
13/16	35	44	15	50	374	5	*1
7/8	36.3	44	15	50	373	5	*1
15/16	38.8	44	16	50	370	5	*1
1	40	44	16	50	374	5	*1
1. 1/16	42.5	44	16	50	375	5	*1
1. 1/8	45	44	18	53	412	5	*1
1. 3/16	46.3	44	18	53	410	5	*1
1. 1/4	48.8	44	19	53	428	5	*1
1. 5/16	51.3	44	20	55	490	5	*1
1. 3/8	52.5	44	20	55	494	5	*1
1. 7/16	55	44	20	55	526	2	*1
1. 1/2	56.3	44	20	57	558	2	*1
1. 5/8	60	44	22	57	572	2	*1
1.11/16	62.5	44	23	62	720	2	*1
1. 3/4	65	44	23	62	757	2	*1
1. 7/8	68.8	54	23	62	940	2	*2
2	72.5	54	30	62	969	2	*2

16400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
17	30	44	12	50	355	5	*1
18	31.3	44	13	50	372	5	*1
19	32.5	44	13	50	360	5	*1
20	33.8	44	14	50	375	5	*1
21	35	44	15	50	374	5	*1
22	36.3	44	15	50	373	5	*1
23	37.5	44	16	50	373	5	*1
24	38.8	44	16	50	370	5	*1
25	40	44	16	50	374	5	*1
26	41.3	44	16	50	378	5	*1
27	42.5	44	16	50	375	5	*1
28	43.8	44	16	50	383	5	*1
29	45	44	18	53	412	5	*1
30	46.3	44	18	53	410	5	*1
31	47.5	44	18	53	426	5	*1
32	48.8	44	19	53	428	5	*1
33	50	44	20	55	470	5	*1
34	51.3	44	20	55	490	5	*1
35	52.5	44	20	55	494	5	*1
36	53.8	44	20	55	498	5	*1
37	55	44	20	55	526	2	*1
38	56.3	44	20	57	558	2	*1
39	57.5	44	20	57	579	2	*1
40	58.8	44	20	57	598	2	*1
41	60	44	22	57	572	2	*1
42	61.3	44	22	57	617	2	*1
43	62.5	44	23	62	720	2	*1
44	63.8	44	23	62	761	2	*1
45	65	44	23	62	757	2	*1
46	66.3	44	23	62	755	2	*1
47 48	67.5	54	23 23	62	805	2	*2
49	68.8	54 54	23	62	940	2	*2
50	70 71.3	54	30	62 62	912 930	2	*2
52	73.8	54	29	62	1011	2	*2
54	76.3	54	29	62	1011	2	*2
55	77.5	54	29	62	1056	2	*2
56	78.8	54	29	62	1091	2	*2
57	80	54	32	65	1126	2	*2
58	81.3	54	31	65	1163	2	*2
59	82.5	54	31	65	1185	2	*2
60	83.8	54	31	65	1215	2	*2
65	90	54	30	65	1325	2	*2
70	96.3	54	34	70	1570	1	*2

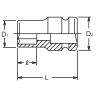
\*1 C-Ring=1600C, Pin/O-Ring=1601A/B \*2 C-Ring=1801C, Pin/O-Ring=1602A/B

16405M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)	(D)
17	30	44	12	50	355	5	*1
18	31.3	44	13	50	372	5	*1
19	32.5	44	13	50	360	5	*1
20	33.8	44	14	50	375	5	*1
21	35	44	15	50	374	5	*1
22	36.3	44	15	50	373	5	*1
23	37.5	44	16	50	373	5	*1
24	38.8	44	16	50	370	5	*1
25	40	44	16	50	374	5	*1
26	41.3	44	16	50	378	5	*1
27	42.5	44	16	50	375	5	*1
28	43.8	44	16	50	383	5	*1
29	45	44	18	53	412	5	*1
30	46.3	44	18	53	410	5	*1
32	48.8	44	19	53	428	5	*1
33	50	44	20	55	470	5	*1
34	51.3	44	20	55	490	5	*1
36	53.8	44	20	55	498	5	*1
38	56.3	44	20	57	558	2	*1
41	60	44	22	57	572	2	*1
42	61.3	44	22	57	617	2	*1
46	66.3	44	23	62	755	2	*1
50	71.3	54	30	62	930	2	*2
52	73.8	54	29	62	1011	2	*2
55	77.5	54	29	62	1056	2	*2
60	83.8	54	31	65	1215	2	*2
65	90	54	30	65	1325	2	*2

<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B 
\*2 C-Ring=1801C, Pin/O-Ring=1602A/B







16401M

16401A

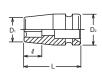


16401A (inch)	D <sub>1</sub> (mm)	D₂ (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
11/16	28	43	12	50	300	5	*1
3/4	30.5	43	13	50	300	5	*1
13/16	33	43	15	50	305	5	*1
7/8	34.3	43	15	50	310	5	*1
15/16	36.8	43	16	50	325	5	*1
1	38	43	16	50	326	5	*1
1. 1/16	40.5	43	16	50	340	5	*1
1. 1/8	43	43	18	53	355	5	*1
1. 3/16	44.3	43	18	53	365	5	*1
1. 1/4	46.8	43	19	53	385	5	*1
1. 5/16	49.3	30	20	55	437	5	*1
1. 3/8	50.5	43	20	55	430	5	*1
1. 7/16	53	43	20	55	460	2	*1
1. 1/2	54.3	43	20	57	472	2	*1
1. 9/16	56.8	43	20	57	525	2	*1
1. 5/8	58	43	22	57	555	2	*1
1.13/16	64.3	43	23	62	710	2	*1

<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239



TORX® Sockets TORX® Steckschlüssel Douilles TORX®





(E)	(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)	
E18	26.3	44	13	50	355	5	*1
E20	28.8	44	14.4	50	370	5	*1
E22	31.3	44	15.5	50	390	5	*1
E24	32.5	44	17	50	390	5	*1
E26	35	44	18.8	60	460	5	*1
E28	36.3	44	25.2	60	465	5	*1
*4 O D'	10000 Bin	O D: 10	04 A /D	D000 000			

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

#### **TORX®**

16401M

29.3

30.5

31.8

34.3

35.5

36.8

39.3

40.5

41.8

44.3

45.5

46.8

49.3

50.5

51.8

54.3

56.8

59.3

61.8

64.3

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B -> P238-239

\*1

\*1

\*1

\*1

\*1

\*1



0 1 1 0 7 10 50 01 71 00 00 110	
S <sub>1</sub> (ref. mm) 3.7 4.6 5.6 6.1 7.4 9.3 9.9 11.0	12.8 14.6 16.5 18.3 20.1 22.0 23.7 25.5
S <sub>2</sub> (ref. mm) 2.7 3.3 4.0 4.3 5.3 6.8 7.1 7.9	9.2 10.5 11.9 13.2 14.8 15.7 17.5 18.3

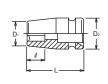
16425 (EPL)	D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫₫ (g)	(pcs.)	(D)
24EPL	32.5	44	12.2	55	427	5	*1
32EPL	40	44	16.1	62	488	2	*1

<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

# 16425-EPL ()



TORXPLUS® Sockets TORXPLUS® Steckschlüssel Douilles TORXPLUS®





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TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

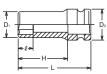
16301X O



6-point Semi-Deep Sockets, Thin Walled 6-kant Steckschlüssel mittel lang, dünnwandig Douilles à paroi mince semi-longues, 6-pans







16301X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	W
17	28	43	17	49	75	370	2	*1
18	29.3	43	18	49	75	380	2	*1
19	30.5	43	19	49	75	393	2	*1
20	31.8	43	20	49	75	400	2	*1
21	33	43	21	49	75	408	2	*1
22	34.3	43	22	49	75	418	2	*1
23	35.5	43	23	49	75	425	2	*1
24	36.8	43	24	49	75	435	2	*1
25	38	43	25	49	75	449	2	*1
26	39.3	43	26	49	75	455	2	*1
27	40.5	43	27	48	75	464	2	*1
28	41.8	43	28	48	75	479	2	*1
29	43	43	29	48	75	489	2	*1
30	44.3	43	30	48	75	506	2	*1
31	45.5	43	31	47	75	518	2	*1
32	46.8	43	32	47	75	535	2	*1
33	48	43	33	47	75	550	2	*1
35	50.5	43	35	46	75	585	2	*1
36	51.8	43	36	46	75	603	2	*1
37	53	43	37	46	75	645	2	*1
38	54.3	43	38	50	80	691	2	*1
40	56.8	43	38	50	80	725	2	*1
41	58	43	38	49	80	755	2	*1
46	64.3	43	38	48	80	808	2	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B >P238-239

### 16300M / 16300A O

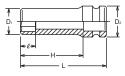


6-point Sockets, deep 6-kant Steckschlüssel, lang Douilles longues, 6-pans



16300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)	(I)
3/4	32.5	44	19	74	100	655	2	*1
13/16	35	44	21	74	100	700	2	*1
7/8	36.3	44	22	74	100	700	2	*1
15/16	38.8	44	24	74	100	705	2	*1
1	40	44	25	74	100	715	2	*1
1. 1/16	42.5	44	27	73	100	765	2	*1
1. 1/8	45	44	29	73	100	835	2	*1
1. 3/16	46.3	44	30	73	100	840	2	*1
1. 1/4	48.8	44	32	72	100	875	2	*1
1. 5/16	51.3	44	34	72	100	950	2	*1
1. 3/8	52.5	44	35	71	100	980	2	*1
1. 7/16	55	44	37	71	100	970	2	*1
1. 1/2	56.3	44	38	70	100	990	2	*1
1. 9/16	58.8	44	38	70	100	1060	2	*1
1. 5/8	60	44	38	69	100	1120	2	*1
1.11/16	62.5	44	38	69	100	1200	2	*1
1. 3/4	65	44	38	68	100	1284	2	*1
1.13/16	66.3	44	38	68	100	1305	2	*1
1. 7/8	68.8	54	38	67	100	1561	2	*2
2	72.5	54	60	-	100	1516	2	*2

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B \*2 C-Ring=1801C, Pin/O-Ring=1602A/B



16300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	Д́Д (g)	(pcs.)	(D)
17	30	44	17	74	100	544	2	*1
18	31.3	44	18	74	100	642	2	*1
19	32.5	44	19	74	100	655	2	*1
20	33.8	44	20	74	100	680	2	*1
21	35	44	21	74	100	700	2	*1
22	36.3	44	22	74	100	700	2	*1
23	37.5	44	23	74	100	720	2	*1
24	38.8	44	24	74	100	705	2	*1
25	40	44	25	74	100	715	2	*1
26	41.3	44	26	74	100	710	2	*1
27	42.5	44	27	73	100	710	2	*1
28	43.8	44	28	73	100	800	2	*1
29	45	44	29	73	100	835	2	*1
30	46.3	44	30	73	100	840	2	*1
31	47.5	44	31	72	100	815	2	*1
32	48.8	44	32	72	100	875	2	*1
33	50	44	33	72	100	920	2	*1
34	51.3	44	34	72	100	950	2	*1
35	52.5	44	35	71	100	980	2	*1
36	53.8	44	36	71	100	960	2	*1
37	55	44	37	71	100	970	2	*1
38	56.3	44	38	70	100	990	2	*1
40	58.8	44	38	70	100	1060	2	*1
41	60	44	38	69	100	1120	2	*1
42	61.3	44	38	69	100	1153	2	*1
43	62.5	44	38	69	100	1200	2	*1
46	66.3	44	38	68	100	1305	2	*1
50	71.3	54	61	_	100	1469	2	*2
55	77.5	54	59	-	100	1620	2	*2

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B 
\*2 C-Ring=1801C, Pin/O-Ring=1602A/B

16301A

6-point Deep Sockets, Thin Walled 6-kant Steckschlüssel, dünnwandig Douilles à paroi mince longues, 6-pans





16301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
11/16	28	43	17	74	100	470	2	*1
3/4	30.5	43	19	74	100	480	2	*1
13/16	33	43	21	74	100	505	2	*1
7/8	34.3	43	22	74	100	528	2	*1
15/16	36.8	43	24	74	100	560	2	*1
1	38	43	25	74	100	581	2	*1
1. 1/16	40.5	43	27	73	100	610	2	*1
1. 1/8	43	43	29	73	100	650	2	*1
1. 3/16	44.3	43	30	73	100	670	2	*1
1. 1/4	46.8	43	32	72	100	715	2	*1
1. 3/8	50.5	43	35	71	100	785	2	*1
1. 7/16	53	43	37	71	100	850	2	*1
1. 1/2	54.3	43	38	70	100	885	2	*1
1. 9/16	56.8	43	38	70	100	925	2	*1
1. 5/8	58	43	38	69	100	970	2	*1
1.13/16	64.3	43	38	68	100	1150	2	*1

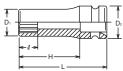
<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

### 16305M



12-point Sockets, deep 12-kant Steckschlüssel, lang Douilles longues, 12-pans



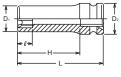


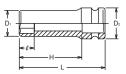
#### 16325



TORX® Deep Sockets TORX® Steckschlüssel, lang Douilles longues TORX®







16301M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	(D)
17	28	43	17	74	100	470	2	*1
18	29.3	43	18	74	100	475	2	*1
19	30.5	43	19	74	100	480	2	*1
20	31.8	43	20	74	100	491	2	*1
21	33	43	21	74	100	505	2	*1
22	34.3	43	22	74	100	528	2	*1
23	35.5	43	23	74	100	542	2	*1
24	36.8	43	24	74	100	560	2	*1
25	38	43	25	74	100	581	2	*1
26	39.3	43	26	74	100	600	2	*1
27	40.5	43	27	73	100	610	2	*1
28	41.8	43	28	73	100	639	2	*1
29	43	43	29	73	100	650	2	*1
30	44.3	43	30	73	100	670	2	*1
31	45.5	43	31	72	100	690	2	*1
32	46.8	43	32	72	100	715	2	*1
33	48	43	33	72	100	750	2	*1
34	49.3	43	34	72	100	772	2	*1
35	50.5	43	35	71	100	785	2	*1
36	51.8	43	36	71	100	830	2	*1
37	53	43	37	71	100	850	2	*1
38	54.3	43	38	70	100	885	2	*1
40	56.8	43	38	70	100	925	2	*1
41	58	43	38	69	100	970	2	*1
42	59.3	43	38	69	100	990	2	*1
46	64.3	43	38	68	100	1150	2	*1

<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

16305M	D <sub>1</sub>	D <sub>2</sub>	l	H	L	ΔŽ		(D)
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)	
14	26.3	44	14	74	100	500	2	*1
17	30	44	17	74	100	544	2	*1
18	31.3	44	18	74	100	600	2	*1
19	32.5	44	19	74	100	655	2	*1
21	35	44	21	74	100	700	2	*1
22	36.3	44	22	74	100	700	2	*1
23	37.5	44	23	74	100	720	2	*1
24	38.8	44	24	74	100	715	2	*1
26	41.3	44	26	74	100	760	2	*1
27	42.5	44	27	73	100	765	2	*1
28	43.8	44	28	73	100	800	2	*1
29	45	44	29	73	100	835	2	*1
30	46.3	44	30	73	100	840	2	*1
32	48.8	44	32	72	100	875	2	*1
35	52.5	44	35	71	100	980	2	*1
36	53.8	44	36	71	100	960	2	*1
38	56.3	44	38	70	100	990	2	*1
41	60	44	38	69	100	1120	2	*1
46	66.3	44	38	68	100	1305	2	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

16325 (E)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)	W
E18	26.3	44	13	74	100	520	2	*1
E20	28.8	44	14.4	74	100	560	2	*1
E22	31.3	44	15.5	74	100	600	2	*1
E24	32.5	44	17	74	100	630	2	*1

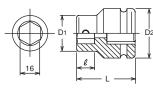
<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

16106



Bit Holder Klingenhalter Porte-embout





**16106** 32 44 16 52 370 2

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239



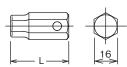
Replacement Screw : M6×10, ● 3mm Ersatzschraube : M6×10. ■ 3mm Vis de remplacement : M6×10, ● 3mm

107-16



Bits for Inhex Screws Klingen für Innensechskant-Schrauben Embouts pour vis 6-pans males creux





107-16 (mm)	L (mm)	₫∄ (g)	(pcs.)
10	40	46	10
12	40	52	10
13	40	56	10
14	40	60	10
16	40	69	10
17	40	73	10
18	40	78	10
19	40	80	10
22	40	97	10
107-16 (inch)	L (mm)	₫ <u>¼</u> (g)	(pcs.)
1/2	40	56	10
9/16	40	60	10
5/8	40	69	10
3/4	40	80	10

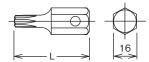
107-16 (T)	L (mm)	(g) (D)	(pcs.)
T55	50	57	10
T60	50	64	10
T70	50	73	10

107-16 (T) 🔎



TORX® Bits TORX® Klingen Embouts, TORX®



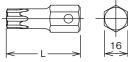


107-16 (IP)



TORXPLUS® Bits TORXPLUS® Klingen Embouts TORXPLUS®





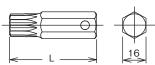
107-16 (IP) (g) 55IP 50 57 10 60IP 50 10 64 70IP 73 50 10

107-16 (XZN)



Bits XZN Klingen XZN Embouts de vissage, XZN





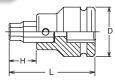
107-16 (XZN) L (mm) Д7₫ (g) (pcs.) M14 60 83 10 M16 60 93 10 M18 60 103 10

16106-16



Bit Holder complete with Bit Klingenhalter, komplett mit Klinge Porte embout avec bit





16106-16 (mm)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
10	44	24	76	416	2	*1
12	44	24	76	422	2	*1
13	44	24	76	426	2	*1
14	44	24	76	430	2	*1
16	44	24	76	439	2	*1
17	44	24	76	443	2	*1
18	44	24	76	448	2	*1
19	44	24	76	450	2	*1
22	44	24	76	473	2	*1

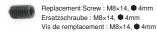
16106-16 (inch)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(I)
1/2	44	24	76	426	2	*1
9/16	44	24	76	430	2	*1
5/8	44	24	76	439	2	*1
3/4	44	24	76	450	2	*1

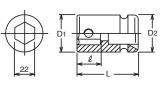
<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

Bit Holder Klingenhalter Porte embouts

**16107** 44 44 22 60 530 2 \*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239





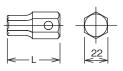
16107



107-22 (mm)	L (mm)	<b>△</b> ⊿ (g)	(pcs.)
17	50	120	10
19	50	140	10
22	50	162	10
24	50	176	10
27	50	200	10
30	50	227	10
32	55	243	10

107-22 (inch)	L (mm)	₫Д (g)	(pcs.)
5/8	50	120	10
3/4	50	140	10
7/8	50	162	10
1	50	190	10
1. 1/4	55	243	10

107-22  Bits for Inhex Screws Klingen für Innensechskant-Schraub Embouts pour vis 6-pans males creu	
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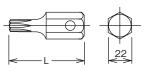




107-22 (T)	L (mm)	ДД (g)	(pcs.)
T 80	60	141	10
T 90	60	155	10
T100	60	170	10









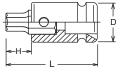
16107-22 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)	(D)
19	44	28	88	670	2	*1
22	44	28	88	692	2	*1
24	44	28	88	706	2	*1
27	44	28	88	730	2	*1
30	44	28	88	757	2	*1
32	44	28	93	783	2	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239



Bit Holder complete with Bit Klingenhalter, komplett mit Klinge Porte embouts avec bit 16107-22





Impact Steckschlüssel

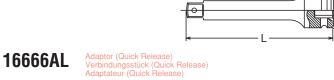
### 16760-150/-175/-200/-250/-330

Extension Bars Verlängerungen Rallonges

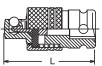


16760	D (mm)	L (mm)	₫Д (g)	(pce.)	(D)
150	44	150	775	1	*1
175	44	175	870	1	*1
200	44	200	955	1	*1
250	44	250	1150	1	*1
330	44	330	1460	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239







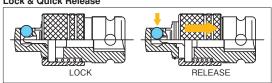
	L (mm)	₫₫ (g)	∭ (pcs.)	W
16666AL	75	660	2	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

106

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

#### Lock & Quick Release

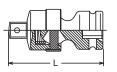


(g)

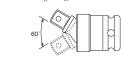
790 720

		<b>├</b> ── L ──→	LOCK	RELEASE
16770	Universal Joint Gelenk-Einsatz			

<b>←</b> L →







	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pcs.)	(D)
16644A-P	3/4"	1/2"	54	310	5	*1
	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pcs.)	W
16655A	3/4"	5/8"	55.5	336	5	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

Adapting down from bigger square drive to smaller square drive may lead to Adapting down ironi bigger square and to a community excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit ⚠ gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

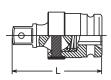
Il est possible d'appliquer aux articles marqués 🗘 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

	凹 (sq.)	凸 (sq.)	L (mm)	₫∄ (g)	(pce.)	W
16688A	3/4"	1"	62	435	1	*1
16688A-250	3/4"	1"	250	1400	1	*1
16688A-330	3/4"	1"	330	1880	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239







16644A-P 16655A

16688A

Verbindungsstücke Réducteurs

Keine Garantie Sans Garantie











Adaptor Verbindungsstück Augmentateur



# 16201M-00 / 16201A-00



Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



16201M-00	13 Pieces Set/\$\tilde{\bar{a}} = 6,800g
METAL CASE:W320×H110×T70mm	
Sockets	
16400M 6-pt. Sockets 19, 21, 22, 23, 24, 26, 27, 30, 32, 33, 36, 38, 41	



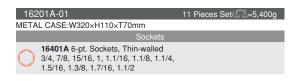
# 16201M-01 / 16201A-01



Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



16201M-01	13 Pieces Set/ὧື 3=6,000g
METAL CASE:W320×H110×T70mm	
Sockets	
16401M 6-pt. Sockets, Thin-walled 19, 21, 22, 23, 24, 26, 27, 30, 32, 33, 36, 38, 41	



# 16245M



Socket Sets Steckschlüssel Sätze Jeux de clés à douilles



16245M	17 Pieces Set/	△ = 12,000g
METAL CASE:W580×H200×T85	mm	
Sockets	Accessories	
16400M 6-pt. Sockets 19, 21, 22, 24, 27, 29, 30, 32, 33, 35, 36, 38, 41, 46, 50		16760-175 16760-330







1	
D: -	
	<u> </u>

18400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)	(I)
17	32.8	54	12	57	579	2	*1
18	34	54	13	57	586	2	*1
19	35.3	54	13	57	590	2	*1
21	37.8	54	15	57	605	2	*1
22	39	54	15	57	620	2	*1
23	40.3	54	16	57	615	2	*1
24	41.5	54	16	57	627	2	*1
25	42.8	54	16	57	620	2	*1
26	44	54	16	57	640	2	*1
27	45.3	54	16	57	627	2	*1
28	46.5	54	16	57	640	2	*1
29	47.8	54	18	57	657	2	*1
30	49	54	21	62	657	2	*1
31	50.3	54	21	62	687	2	*1
32	51.5	54	21	62	685	2	*1
33	52.8	54	21	62	685	2	*1
34	54	54	21	62	690	2	*1
35	55.3	54	21	62	710	2	*1
36	56.5	54	21	62	712	2	*1
37	57.8	54	21	62	735	2	*1
38	59	54	25	66	720	2	*1
40	61.5	54	25	66	850	2	*1
41	62.8	54	25	66	850	2	*1
42	64	54	25	66	905	2	*1
43	65.3	54	27	68	977	2	*1
44	66.5	54	27	68	970	2	*1
45	67.8	54	27	68	963	2	*1
46	69	54	29	70	1010	2	*1
47	70.3	54	36	70	997	2	*1
48	71.5	54	35	70	990	2	*1
50	74	54	35	70	1065	2	*1
52	76.5	54	40	75	1185	2	*1
54	79 80.3	54 54	40 39	75 75	1252 1260	2	*1
55 56	81.5	54	39	75	1277	2	*1
58	84	54	39	75 75	1340	2	*1
60	86.5	54	39	75	1400	2	*1
62	89	54	38	75	1410	2	*1
63	90.3	54	38	75	1383	2	*1
65	92.8	54	38	75	1630	2	*1
67	95.3	54	38	75	1580	2	*1
68	96.5	54	37	75	1583	1	*1
70	99	54	37	75	1625	1	*1
75	105.3	86	37	80	2675	1	*2
80	111.5	86	41	85	2996	1	*2
85	117.8	86	37	90	3378	1	*2
90	124	86	40	95	3871	1	*2
95	130.3	86	43	100	4500	1	*2
100	136.5	86	47	105	5000	1	*2

*1 C-Ring=1801C, Pin/O-Ring=1801A/B	ı
*2 C-Ring=1802C, Pin/O-Ring=1802A/B	

→P238-239

18400A (inch)	D₁ (mm)	D₂ (mm)	ل (mm)	L (mm)	Д¯Д (g)	(pcs.)	(D)
11/16	32.8	54	12	57	579	2	*1
3/4	35.3	54	13	57	590	2	*1
13/16	37.8	54	15	57	605	2	*1
7/8	39	54	15	57	620	2	*1
15/16	41.5	54	16	57	627	2	*1
1	42.8	54	16	57	620	2	*1
1. 1/16	45.3	54	16	57	627	2	*1
1. 1/8	47.8	54	18	57	657	2	*1
1. 3/16	49	54	21	62	657	2	*1
1. 1/4	51.5	54	21	62	685	2	*1
1. 5/16	54	54	21	62	690	2	*1
1. 3/8	55.3	54	21	62	710	2	*1
1. 7/16	57.8	54	21	62	735	2	*1
1. 1/2	59	54	25	66	720	2	*1
1. 9/16	61.5	54	25	66	850	2	*1
1. 5/8	62.8	54	25	66	850	2	*1
1.11/16	65.3	54	27	68	977	2	*1
1. 3/4	67.8	54	27	68	963	2	*1
1.13/16	69	54	29	70	1010	2	*1
1. 7/8	71.5	54	35	70	990	2	*1
1.15/16	72.8	54	35	70	1000	2	*1
2	75.3	54	35	70	1060	2	*1
2. 1/16	76.5	54	40	75	1185	2	*1
2. 1/8	79	54	40	75	1252	2	*1
2. 3/16	80.3	54	39	75	1260	2	*1
2. 1/4	82.8	54	39	75	1337	2	*1
2. 5/16	84	54	39	75	1340	2	*1
2. 3/8	86.5	54	39	75	1400	2	*1
2. 7/16	89	54	38	75	1410	2	*1
2. 1/2	91.5	54	38	75	1498	2	*1
2. 9/16	92.8	54	38	75	1630	2	*1
2. 5/8	95.3	54	38	75	1580	2	*1
2.11/16	96.5	54	37	75	1583	1	*1
2. 3/4	99	54	37	75	1625	1	*1
2.13/16	101.5	86	37	80	2705	1	*2
2. 7/8	102.8	86	38	80	2629	1	*2
2.15/16	105.3	86	37	80	2675	1	*2
3	106.5	86	37	80	2705	1	*2
3. 1/16	109	86	42	85	2967	1	*2
3. 1/8	111.5	86	41	85	2996	1	*2
3. 1/4	115.3	86	44	90	3328	1	*2
3. 3/8	119	86	36	90	3389	1	*2 *2
3. 1/2	124	86	40	95	3871		2

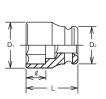
<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B
\*2 C-Ring=1802C, Pin/O-Ring=1802A/B

# 18401M 18401A



6-point Sockets, Thin Walled 6-kant Steckschlüssel, dünnwandig Douilles à paroi mince, 6-pans







### \*1 C-Ring=1801C, Pin/O-Ring=1801A/B >P238-239

**M** (mm)

18401A

11/16

3/4

13/16

7/8

15/16

1. 1/16

1. 3/16

1. 1/4

1. 3/8

1. 1/2

1. 5/8

1.13/16

29.8

32.3

34.8

38.5

42.3

48.5

49.8

52.3

53.5

59.8

Dı

29.8

32.3

34.8

38.5

42.3

48.5

52.3

59.8

D2

18405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫¼ (g)	(pcs.)	(1)
27	45.3	54	16	57	607	2	*1
30	49	54	21	62	657	2	*1
32	51.5	54	21	62	685	2	*1
33	52.8	54	21	62	690	2	*1
35	55.3	54	21	62	690	2	*1
36	56.5	54	21	62	692	2	*1
38	59	54	25	66	700	2	*1
40	61.5	54	25	66	830	2	*1
41	62.8	54	25	66	905	2	*1
46	69	54	29	70	990	2	*1
50	74	54	35	70	1021	2	*1
55	80.3	54	39	75	1234	2	*1
56	81.5	54	39	75	1250	2	*1
60	86.5	54	39	75	1400	2	*1
65	92.8	54	38	75	1600	2	*1

₫⁄₫ (g)

\*1

\*1

\*1

18405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫¼ (g)	(pcs.)	W
3/4	35.3	54	13	57	590	2	*1
7/8	39	54	15	57	620	2	*1
1	42.8	54	16	57	620	2	*1
1. 1/8	47.8	54	18	57	660	2	*1
1. 3/16	49	54	21	62	660	2	*1
1. 1/4	51.5	54	21	62	690	2	*1
1. 3/8	55.3	54	21	62	710	2	*1
1. 7/16	57.8	54	21	62	735	2	*1
1. 1/2	59	54	25	66	720	2	*1
1. 3/4	67.8	54	27	68	970	2	*1
1.15/16	72.8	54	35	70	1000	2	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

18405M (D) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	L (mm)	₫¼ (g)	(pcs.)	(1)
50(D68)	68	54	35	70	890	2	*1
55(D76)	76	54	39	75	1130	2	*1
65(D87)	87	54	38	75	1344	2	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

Items in this catalogue marked 1 can be loaded to torque values which may cause breakage.In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.

Die mit 🗘 gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen

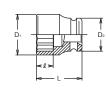
Il est possible d'appliquer aux articles marqués 🗘 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

# 18405M / 18405A 🤇



12-point Sockets 12-kant Steckschlüssel





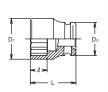
# 18405M (D)



Steckschlüssel für Gelenkwellen Douilles pour arbres à cardan

No Warranty







# 18301X O



6-point Semi-Deep Sockets, Thin Walled 6-kant Steckschlüssel mittel lang, dünnwandig Douilles à paroi mince semi-longues, 6-pans





D)

# 18300M / 18300A



6-point Sockets, deep 6-kant Steckschlüssel, lang Douilles 6-pans, longues



								_
18300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
19	35.3	54	19	77	108	1010	2	*1
21	37.8	54	21	77	108	1010	2	*1
22	39	54	22	77	108	1010	2	*1
23	40.3	54	23	77	108	1063	2	*1
24	41.5	54	24	77	108	1060	2	*1
25	42.8	54	25	77	108	1085	2	*1
26	44	54	26	77	108	1133	2	*1
27	45.3	54	27	77	108	1125	2	*1
28	46.5	54	28	77	108	1140	2	*1
29	47.8	54	29	77	108	1120	2	*1
30	49	54	30	77	108	1179	2	*1
31	50.3	54	31	77	108	1125	2	*1
32	51.5	54	32	77	108	1200	2	*1
33	52.8	54	33	77	108	1200	2	*1
34	54	54	34	77	108	1280	2	*1
35	55.3	54	35	77	108	1300	2	*1
36	56.5	54	36	76	108	1280	2	*1
37	57.8	54	37	76	108	1320	2	*1
38	59	54	38	76	108	1423	2	*1
40	61.5	54	38	75	108	1415	2	*1
41	62.8	54	38	75	108	1450	2	*1
42	64	54	38	75	108	1550	2	*1
44	66.5	54	38	74	108	1636	2	*1
45	67.8	54	38	74	108	1660	2	*1
46	69	54	38	74	108	1680	2	*1
48	71.5	54	67	_	108	1500	2	*1
50	74	54	66	_	108	1650	2	*1
52	76.5	54	65	_	108	1770	2	*1
55	80.3	54	63	_	108	1855	2	*1
60	86.5	54	60	_	108	2047	2	*1
65	92.8	54	58	_	108	2310	2	*1
70	99	54	55	_	108	2440	1	*1
75	105.3	86	52	_	108	3646	1	*2
80	111.5	86	49		108	4039	1	*2
85	117.8	86	59	_	108	4000	1	*2
90	124	86	57	_	108	4200	1	*2
95	130.3	86	55	_	108	4400	1	*2

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B 
\*2 C-Ring=1802C, Pin/O-Ring=1802A/B

18301X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	(V)
17	29.8	53	17	48	80	635	2	*1
19	32.3	53	19	48	80	655	2	*1
21	34.8	53	21	48	80	680	2	*1
22	36	53	22	48	80	686	2	*1
24	38.5	53	24	48	80	693	2	*1
27	42.3	53	27	48	80	745	2	*1
30	46	53	30	48	80	761	2	*1
32	48.5	53	32	53	85	770	2	*1
33	49.8	53	33	53	85	781	2	*1
35	52.3	53	35	53	85	800	2	*1
36	53.5	53	36	52	85	808	2	*1
38	56	53	38	52	85	865	2	*1
41	59.8	53	38	51	85	937	2	*1
46	66	53	38	50	85	1032	2	*1
50	71	53	55	_	85	1220	2	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

18300A	D <sub>1</sub>	D <sub>2</sub>	l	Н	L	ΔŽ		(D)
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)	
11/16	32.8	54	17	77	108	978	2	*1
3/4	35.3	54	19	77	108	1010	2	*1
7/8	39	54	22	77	108	1010	2	*1
15/16	41.5	54	24	77	108	1060	2	*1
1	42.8	54	25	77	108	1085	2	*1
1. 1/16	45.3	54	27	77	108	1125	2	*1
1. 1/8	47.8	54	29	77	108	1120	2	*1
1. 3/16	49	54	30	77	108	1179	2	*1
1. 1/4	51.5	54	32	77	108	1200	2	*1
1. 5/16	54	54	34	77	108	1280	2	*1
1. 3/8	55.3	54	35	77	108	1300	2	*1
1. 7/16	57.8	54	37	76	108	1320	2	*1
1. 1/2	59	54	38	76	108	1423	2	*1
1. 9/16	61.5	54	38	75	108	1415	2	*1
1. 5/8	62.8	54	38	75	108	1450	2	*1
1.11/16	65.3	54	38	74	108	1577	2	*1
1. 3/4	67.8	54	38	74	108	1660	2	*1
1.13/16	69	54	38	74	108	1680	2	*1
1. 7/8	71.5	54	67	_	108	1500	2	*1
1.15/16	72.8	54	67	_	108	1570	2	*1
2	75.3	54	66	_	108	1605	2	*1
2. 1/16	76.5	54	65	_	108	1770	2	*1
2. 1/8	79	54	64	_	108	1812	2	*1
2. 3/16	80.3	54	63	_	108	1855	2	*1
2. 1/4	82.8	54	62	_	108	1916	2	*1
2. 5/16	84	54	61	_	108	1987	2	*1
2. 3/8	86.5	54	60	_	108	2047	2	*1
2. 7/16	89	54	59	_	108	2041	2	*1
2. 1/2	91.5	54	58	_	108	2250	2	*1
2. 9/16	92.8	54	58	_	108	2310	2	*1
2. 5/8	95.3	54	56	_	108	2370	1	*1
2. 3/4	99	54	55	_	108	2440	1	*1
2. 7/8	102.8	86	53	_	108	3600	1	*2
2.15/16	105.3	86	52	_	108	3646	1	*2
3	106.5	86	51	_	108	3677	1	*2
3. 1/16	109	86	50	_	108	3939	1	*2
3. 1/8	111.5	86	49	_	108	4039	1	*2
3. 3/16	112.8	86	48	_	108	4170	1	*2

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B \*2 C-Ring=1802C, Pin/O-Ring=1802A/B

18301M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
17	29.8	53	17	77	108	692	2	*1
18	31	53	18	77	108	710	2	*1
19	32.3	53	19	77	108	725	2	*1
20	33.5	53	20	77	108	740	2	*1
21	34.8	53	21	77	108	750	2	*1
22	36	53	22	77	108	770	2	*1
23	37.3	53	23	77	108	780	2	*1
24	38.5	53	24	77	108	800	2	*1
26	41	53	26	77	108	830	2	*1
27	42.3	53	27	77	108	860	2	*1
29	44.8	53	29	77	108	880	2	*1
30	46	53	30	77	108	910	2	*1
32	48.5	53	32	77	108	970	2	*1
33	49.8	53	33	77	108	980	2	*1
34	51	53	34	77	108	980	2	*1
35	52.3	53	35	77	108	986	2	*1
36	53.5	53	36	76	108	992	2	*1
38	56	53	38	76	108	1025	2	*1
39	57.3	53	38	76	108	1130	2	*1
41	59.8	53	38	75	108	1213	2	*1
43	62.3	53	38	74	108	1400	2	*1
46	66	53	38	74	108	1400	2	*1

18301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
11/16	29.8	53	17	77	108	692	2	*1
3/4	32.3	53	19	77	108	725	2	*1
13/16	34.8	53	21	77	108	750	2	*1
7/8	36	53	22	77	108	770	2	*1
15/16	38.5	53	24	77	108	800	2	*1
1. 1/16	42.3	53	27	77	108	860	2	*1
1. 3/16	46	53	30	77	108	910	2	*1
1. 1/4	48.5	53	32	77	108	970	2	*1
1. 3/8	52.3	53	35	77	108	986	2	*1
1. 1/2	56	53	38	76	108	1025	2	*1
1. 5/8	59.8	53	38	75	108	1213	2	*1
1.13/16	66	53	38	74	108	1400	2	*1

108 1520 2 \*1

65 38 —

**50** 71

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B → P238-239

18104M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫¼ (g)	(pce.)	W
24	41.5	54	24	170	1327	1	*1
27	45.3	54	27	170	1375	1	*1
28	46.5	54	28	170	1390	1	*1
30	49	54	30	170	1407	1	*1
32	51.5	54	32	170	1537	1	*1
33	52.8	54	33	170	1590	1	*1
34	54	54	34	170	1670	1	*1
36	56.5	54	36	170	1800	1	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

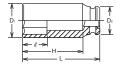
# 18301M 18301A



6-point Deep Sockets, Thin Walled 6-kant Steckschlüssel, dünnwandig Douilles à paroi mince longues, 6-pans



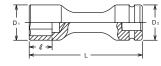




# 18104M







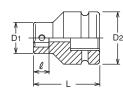
**18106** C



Bit Holder Klingenhalter Porte embouts







\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239



3/4

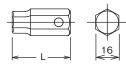
Replacement Screw : M6×10, ● 3mm Ersatzschraube : M6×10, ● 3mm Vis de remplacement : M6×10, ● 3mm





Klingen für Innensechskant-Schrauben Embouts pour vis 6-pans males creux



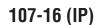


107-16 (mm)	L (mm)	₫∄ (g)	(pcs.)
10	40	46	10
12	40	52	10
13	40	56	10
14	40	60	10
16	40	69	10
17	40	73	10
18	40	78	10
19	40	80	10
22	40	97	10
107-16 (inch)	L (mm)	Д¯Д (g)	(pcs.)
1/2	40	56	10
9/16	40	60	10
5/8	40	69	10

107-16 (T)	TORX® Bits TORX® Klingen Embouts, TORX®		107-16 (T)	
_		1	T55	
And in case of the last of the			T60	
			T70	
		\		

16

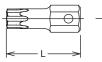
107-16 (T)	L (mm)	₫ <u>Ђ</u> (g)	(pcs.)
T55	50	57	10
T60	50	64	10
T70	50	73	10





TORXPLUS® Bits TORXPLUS® Klingen Embouts TORXPLUS®





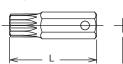
	107-16 (IP)	L (mm)	(g)	(pcs.)
New	55IP	50	57	10
New	60IP	50	64	10
New	70IP	50	73	10

107-16 (XZN)



Bits XZN Klingen XZN Embouts de vissage, XZN





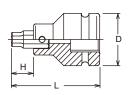
107-16 (XZN)	L (mm)	₫ <u>¯</u> (g)	(pcs.)
M14	60	83	10
M16	60	93	10
M18	60	103	10

18106-16



Bit Holder complete with Bit Klingenhalter, komplett mit Klinge Porte embouts avec bit





18106-16 (mm)	D (mm)	H (mm)	L (mm)	₫Д (g)	⇔ (pcs.)	(D)
10	54	24	92	686	2	*1
12	54	24	92	692	2	*1
13	54	24	92	696	2	*1
14	54	24	92	700	2	*1
16	54	24	92	709	2	*1
17	54	24	92	713	2	*1
18	54	24	92	718	2	*1
19	54	24	92	764	2	*1
22	54	24	92	781	2	*1
18106-16	D (mm)	H (mm)	L (mm)	<b>₽</b> Д	(ncs.)	(D)

(inch)	(mm)	(mm)	(mm)	(g)	(pcs.)	(V)
1/2	54	24	92	696	2	*1
9/16	54	24	92	700	2	*1
5/8	54	24	92	709	2	*1
3/4	54	24	92	764	2	*1

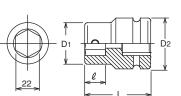
<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239



\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239





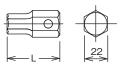




107-22 (mm)	L (mm)	Д°Д (g)	(pcs.)
17	50	120	10
19	50	140	10
22	50	162	10
24	50	176	10
27	50	200	10
30	50	227	10
32	55	243	10

107-22 (inch)	L (mm)	₫∄ (g)	(pcs.)	
5/8	50	120	10	
3/4	50	140	10	
7/8	50	162	10	
1	50	190	10	
1. 1/4	55	243	10	

Bit Holder Klingenhalter Porte embouts



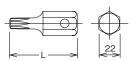


107-22 (T)	L (mm)	Ø∄ (g)	(pcs.)
T 80	60	141	10
T 90	60	155	10
T100	60	170	10

107-22 (T)	L (mm)	Д¯Д (g)	(pcs.)	
T 80	60	141	10	
T 90	60	155	10	
T100	60	170	10	

107-22	(T)
	\ • <i>I</i>







18107-22 (mm)	D (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)	W
19	54	28	98	910	2	*1
22	54	28	98	932	2	*1
24	54	28	98	946	2	*1
27	54	28	98	986	2	*1
30	54	28	98	1008	2	*1
32	54	28	103	1029	2	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B >P238-23



Bit Holder complete with Bit Klingenhalter, komplett mit Klinge Porte embouts avec bit 18107-22



# 18760-175/-200/-250/-330

Extension Bars Verlängerungen Rallonges





18760	D (mm)	L (mm)	₫Д (g)	(pce.)	W
175	54	175	1400	1	*1
200	54	200	1580	1	*1
250	54	250	1885	1	*1
330	54	330	2380	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

18888AL

Adaptor (Quick Release) Verbindungsstück (Quick Release) Adaptateur (Quick Release)

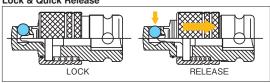




	L (mm)	Д¯Д (g)	(pcs.)	W
18888AL	95	980	2	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B >P238-239

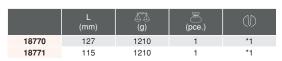
### Lock & Quick Release



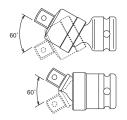
Universal Joint Gelenk-Einsatz Cardan universel 18770







\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239



Universal Joint Gelenk-Einsatz Cardan universel 18771



	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pce.)	W
18866A	1"	3/4"	66.5	580	1	*1
18866A-200	1"	3/4"	200	1100	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B P23

Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit 🛕 gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués 🐧 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pce.)	W
18877A	1"	1.1/2"	80	935	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

18866A

Adaptors Verbindungsstücke Réducteurs

No Warranty Keine Garantie Sans Garantie



18866A-200







18877A

Adaptor Verbindungsstück Augmentateur

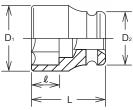












17400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫¼ (g)	(pce.)	(1)
36	62	86	20	77	2126	1	*1
41	68	86	22	80	2346	1	*1
42	70	86	22	80	2330	1	*1
46	74	86	26	84	2360	1	*1
50	79	86	27	84	2400	1	*1
52	82	86	38	84	2340	1	*1
54	84	86	38	84	2340	1	*1
55	85	86	44	90	2450	1	*1
58	88	86	44	90	2510	1	*1
60	91	86	43	90	2640	1	*1
65	97	86	48	95	3050	1	*1
70	103	86	52	100	3350	1	*1
75	108	86	56	105	3700	1	*1
80	115	86	60	110	4240	1	*1
85	122	86	60	110	4550	1	*1
90	128	86	60	112	4840	1	*1
95	135	127	52	112	7660	1	*2
100	140	127	53	115	7700	1	*2
105	146	127	57	120	8000	1	*2
110	153	127	60	124	9200	1	*2
115	160	127	62	128	10700	1	*2
120	166	127	64	132	11200	1	*2
125	173	127	67	136	13000	1	*2
130	180	127	69	140	14200	1	*2
135	186	127	73	145	14940	1	*2
140	190	127	76	150	15600	1	*2
150	200	127	83	160	16500	1	*2

17400A (inch)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(V)
1. 5/8	68	86	22	80	2346	1	*1
1.11/16	71	86	22	80	2300	1	*1
1. 3/4	73	86	22	80	2290	1	*1
1.13/16	74	86	26	84	2360	1	*1
1. 7/8	77	86	26	84	2440	1	*1
1.15/16	79	86	27	84	2400	1	*1
2	80	86	27	84	2420	1	*1
2. 1/16	82	86	38	84	2340	1	*1
2. 1/8	84	86	38	84	2340	1	*1
2. 3/16	85	86	44	90	2450	1	*1
2. 1/4	87	86	43	90	2460	1	*1
2. 5/16	88	86	44	90	2510	1	*1
2. 3/8	91	86	43	90	2640	1	*1
2. 7/16	93	86	47	95	2860	1	*1
2. 1/2	96	86	47	95	3000	1	*1
2. 9/16	97	86	48	95	3050	1	*1
2. 5/8	100	86	51	100	3300	1	*1
2.11/16	101	86	51	100	3300	1	*1
2. 3/4	103	86	52	100	3350	1	*1
2.13/16	105	86	55	105	3670	1	*1
2. 7/8	106	86	55	105	3610	1	*1
2.15/16	108	86	56	105	3700	1	*1
3	108	86	55	105	3680	1	*1
3. 1/8	115	86	60	110	4240	1	*1
3. 1/4	118	86	59	110	4370	1	*1
3. 3/8	123	86	60	110	4570	1	*1
3. 1/2	128	86	60	112	4840	1	*1
3. 5/8	132	86	52	112	5500	1	*1
3. 3/4	135	127	52	112	7660	1	*2
3. 7/8	140	127	53	115	7700	1	*2
4	146	127	57	120	8000	1	*2
4. 1/8	146	127	57	120	8000	1	*2
4. 1/4	153	127	60	124	9200	1	*2
4. 1/2	160	127	62	128	10700	1	*2
4. 5/8	166	127	64	132	11200	1	*2
4. 3/4	168	127	64	132	11200	1	*2
4. 7/8	173	127	67	136	13000	1	*2
5	180	127	69	140	14200	1	*2
5. 1/4	186	127	73	145	14940	1	*2
6	205	127	88	165	16500	1	*2
6. 1/2	205	127	94	175	17500	1	*2

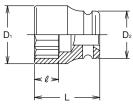
<sup>\*1</sup> C-Ring=1700C, Pin/O-Ring=1701A/B
\*2 Pin/O-Ring=1702A/B

# 17405M / 17405A 🔘



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





# 17300M / 17300A



6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans



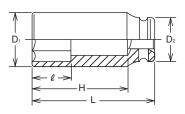
17300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	Д¯Д (g)	(pce.)	(1)
1. 5/8	68	86	27	70.5	115	3080	1	*1
1.11/16	71	86	27	70.5	115	3180	1	*1
1. 3/4	73	86	27	70.5	115	3210	1	*1
1.13/16	74	86	28	80.5	125	3440	1	*1
1. 7/8	77	86	28	80.5	125	3550	1	*1
1.15/16	79	86	28	80.5	125	3590	1	*1
2	80	86	30	90.5	135	3916	1	*1
2. 1/16	82	86	30	90.5	135	4030	1	*1
2. 1/8	84	86	30	90.5	135	4160	1	*1
2. 3/16	85	86	33	90.5	135	4200	1	*1
2. 1/4	87	86	33	90.5	135	4160	1	*1
2. 3/8	91	86	35	90.5	135	4370	1	*1
2. 7/16	93	86	35	90.5	135	4490	1	*1
2. 1/2	96	86	35	90.5	135	4630	1	*1
2. 9/16	97	86	38	99.5	145	5260	1	*1
2. 5/8	100	86	38	99.5	145	5320	1	*1
2.11/16	101	86	38	99.5	145	5670	1	*1
2. 3/4	103	86	40	98.5	145	5780	1	*1
2.13/16	105	86	40	98.5	145	6000	1	*1
2. 7/8	106	86	40	98.5	145	6080	1	*1
2.15/16	108	86	42	107.5	155	6580	1	*1
3	108	86	42	107.5	155	6850	1	*1
3. 1/8	115	86	46	115.5	165	7740	1	*1
3. 3/4	135	127	55	121.5	175	12200	1	*2
3. 7/8	140	127	56	120.5	175	11080	1	*2

<sup>\*1</sup> C-Ring=1700C, Pin/O-Ring=1701A/B \*2 Pin/O-Ring=1702A/B

17405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
46	74	86	26	84	2360	1	*1
50	79	86	27	84	2400	1	*1
55	85	86	44	90	2450	1	*1
60	91	86	43	90	2640	1	*1
65	97	86	48	95	3050	1	*1
70	103	86	52	100	3350	1	*1
75	108	86	56	105	3700	1	*1
80	115	86	60	110	4240	1	*1
85	122	86	60	110	4550	1	*1
90	128	86	60	112	4840	1	*1

17405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
1.11/16	71	86	22	80	2300	1	*1
1. 3/4	73	86	22	80	2290	1	*1
1. 7/8	77	86	26	84	2440	1	*1
1.15/16	79	86	27	84	2400	1	*1
2	80	86	27	84	2420	1	*1
2. 1/16	82	86	38	84	2340	1	*1
2. 1/8	84	86	38	84	2340	1	*1
2. 3/16	85	86	44	90	2450	1	*1
2. 1/4	87	86	43	90	2460	1	*1
2. 3/8	91	86	43	90	2640	1	*1
2. 7/16	93	86	47	95	2860	1	*1
2. 1/2	96	86	47	95	3000	1	*1
2. 9/16	97	86	48	95	3050	1	*1
2. 5/8	100	86	51	100	3300	1	*1

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B > P238-239



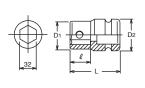
17300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)	(1)
41	68	86	27	70.5	115	3080	1	*1
42	70	86	27	70.5	115	3140	1	*1
46	74	86	28	80.5	125	3440	1	*1
50	79	86	30	90.5	135	3840	1	*1
54	84	86	30	90.5	135	4160	1	*1
55	85	86	33	90.5	135	4130	1	*1
60	91	86	35	90.5	135	4370	1	*1
65	97	86	38	99.5	145	5260	1	*1
70	103	86	40	98.5	145	5780	1	*1
75	108	86	42	107.5	155	6580	1	*1
80	115	86	46	115.5	165	7740	1	*1
85	122	86	49	114.5	165	7420	1	*1
90	128	86	52	122.5	175	9630	1	*1
95	135	127	55	121.5	175	10450	1	*2
100	140	127	58	130.5	185	9741	1	*2
105	146	127	62	138.5	195	10850	1	*2
110	153	127	65	137.5	195	11500	1	*2
115	160	127	68	135.5	195	12160	1	*2
120	166	127	72	144.5	205	13680	1	*2
125	173	127	74	142.5	205	14450	1	*2
130	180	127	76	142.5	205	15190	1	*2

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B

\*2 Pin/O-Ring=1702A/B

Bit Holder Klingenhalter Porte-embouts 17108 🔘





	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pce.)	(D)
17108	60	86	30	85	2200	1	*1

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B > P238-239

Replacement Screw : M8×14, ● 4mm Ersatzschraube : M8×14, ● 4mm Vis de remplacement : M8×14, ● 4mm

107-32



Bit for Inhex Screws Klingen für Innensechskant-Schrauben Embouts pour vis 6-pans måle creux





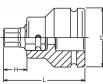


107-32 (mm)	L (mm)	₫¼ (g)	(pcs.)
19	60	300	10
22	60	320	10
24	60	330	10
27	60	360	10
30	60	390	10
32	60	410	10
36	60	460	10



17108-32 Bit Holder complete with Bit Klingenhalter, komplett mit Klinge Porte embouts avec bit





17108-32 (mm)	D (mm)	H (mm)	L (mm)	₫∄ (g)	(pce.)	(1)
19	86	30	115	2500	1	*1
22	86	30	115	2520	1	*1
24	86	30	115	2530	1	*1
27	86	30	115	2560	1	*1
30	86	30	115	2590	1	*1
32	86	30	115	2610	1	*1
36	86	30	115	2660	1	*1

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B > P238-239



Extension Bars Verlängerungen Rallonges

# Douilles Impact

17760	D (mm)	L (mm)	₫₫ (g)	(pce.)	Ѿ
175	86	175	3300	1	*1
250	86	250	4500	1	*1
330	86	330	5200	1	*1

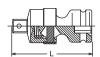
\*1 C-Ring=1700C, Pin/O-Ring=1701A/B > P238-239

17760-175/-250/-330

	L (mm)	Д¯Д (g)	(pce.)	Ѿ	
17770	200	4700	1	*1	

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B > P238-239





17770



\*1 C-Ring=1700C, Pin/O-Ring=1701A/B > P238-239

Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit 🛕 gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués 🗘 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

	凹 (sq.)	凸 (sq.)	L (mm)	₫Д (g)	(pce.)	(D)
17799A	1.1/2"	2.1/2"	115	3790	1	*1

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B > P238-239



Adaptor Verbindungsstück Réducteur

No Warranty Keine Garantie Sans Garantie





17799A

Adaptor Verbindungsstück Augmentateur

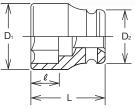




# 19400M / 19400A O







19400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pce.)	W
50	88	127	39	115	7270	1	*1
55	94	127	42	115	7350	1	*1
60	100	127	45	125	7870	1	*1
65	105	127	48	125	7790	1	*1
70	110	127	51	125	7640	1	*1
75	118	127	54	125	7740	1	*1
80	124	127	57	125	7640	1	*1
85	127	127	61	132	7840	1	*1
90	135	127	64	132	8500	1	*1
95	140	127	71	140	10160	1	*1
100	146	127	71	142	11500	1	*1
105	155	127	74	146	11350	1	*1
110	160	127	76	155	12710	1	*1
115	167	127	78	158	13980	1	*1
120	175	175	79	160	15430	1	*2
125	180	175	82	165	16590	1	*2
130	185	175	85	169	17590	1	*2
135	190	175	89	175	19030	1	*2
140	200	175	93	180	21810	1	*2
145	205	175	95	183	24440	1	*2
150	210	175	97	192	25720	1	*2
160	225	175	102	200	30920	1	*2
165	230	175	105	204	32610	1	*2
170	235	175	106	207	34390	1	*2
175	240	175	109	211	36210	1	*2
180	250	175	110	214	40630	1	*2
185	255	175	113	218	42690	1	*2
190	265	175	113	220	47440	1	*2
200	275	175	116	225	51550	1	*2
210	285	175	123	235	57170	1	*2
215	290	175	126	240	60260	1	*2
225	305	175	133	250	70180	1	*2
235	315	175	140	260	77060	1	*2

19400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	Ø∄ (g)	(pce.)	W
2. 3/8	100	127	45	125	7870	1	*1
2. 7/16	102	127	46	125	7840	1	*1
2. 1/2	103	127	47	125	7810	1	*1
2. 9/16	105	127	48	125	7790	1	*1
2. 5/8	107	127	49	125	7790	1	*1
2.11/16	108	127	50	125	7790	1	*1
2. 3/4	110	127	51	125	7640	1	*1
2.13/16	113	127	52	125	7690	1	*1
2. 7/8	115	127	53	125	7730	1	*1
2.15/16	118	127	54	125	7740	1	*1
3	120	127	55	125	7740	1	*1
3. 1/8	124	127	57	125	7640	1	*1
3. 1/4	125	127	59	125	7740	1	*1
3. 3/8	127	127	61	132	7840	1	*1
3. 1/2	135	127	64	132	8500	1	*1
3. 5/8	138	127	64	132	9330	1	*1
3. 3/4	140	127	71	140	10160	1	*1
3. 7/8	143	127	70	140	10830	1	*1
4	146	127	71	142	11500	1	*1
4. 1/8	155	127	70	142	11250	1	*1
4. 1/4	160	127	76	155	12710	1	*1
4. 1/2	167	127	78	158	13980	1	*1
4. 5/8	175	175	79	160	15430	1	*2
4. 7/8	180	175	82	165	16590	1	*2
5	183	175	81	165	17090	1	*2
5. 1/4	190	175	89	175	19030	1	*2
5. 3/8	198	175	94	180	20880	1	*2
5. 1/2	200	175	93	180	21810	1	*2
5. 5/8	203	175	94	182	22480	1	*2
5. 3/4	207	175	103	192	24440	1	*2
6	217	175	100	196	28510	1	*2
6. 1/8	218	175	99	196	29720	1	*2
6. 5/8	233	175	105	205	33500	1	*2
7	248	175	110	213	39160	1	*2

<sup>\*1</sup> Pin/O-Ring=1901A/B

<sup>\*2</sup> Pin/O-Ring=1902A/B

19300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫¼ (g)	(pce.)	(D)
75	118	127	42	129	190	11930	1	*1
80	124	127	46	129	190	12280	1	*1
85	127	127	49	134	195	12480	1	*1
90	135	127	52	144	205	14000	1	*1
95	140	127	55	149	210	14630	1	*1
100	146	127	58	154	215	15520	1	*1
105	155	127	62	146.5	220	18250	1	*1
110	160	127	65	150.5	225	18740	1	*1
115	167	127	68	153.5	230	20940	1	*1
120	175	175	72	157.5	235	23530	1	*2
125	180	175	74	158.5	238	26110	1	*2
130	185	175	76	163.5	243	25320	1	*2
135	190	175	80	165.5	248	26290	1	*2
140	200	175	82	164.5	248	28940	1	*2
145	205	175	84	163.5	248	29520	1	*2
150	210	175	88	168.5	255	30600	1	*2
155	215	175	92	167.5	255	31680	1	*2
160	225	175	95	170.5	260	35560	1	*2
165	230	175	98	169.5	260	36040	1	*2
170	235	175	100	172.5	265	37230	1	*2
175	240	175	102	176.5	270	39420	1	*2

<sup>\*1</sup> Pin/O-Ring=1901A/B \*2 Pin/O-Ring=1902A/B

19760	D (mm)	L (mm)	Д¯Д (g)	(pce.)	Ѿ
250	127	250	17800	1	*1
500	127	500	27800	1	*1

\*1 Pin/O-Ring=1901A/B >P239



	L (mm)	Д¯Д (g)	(pce.)	W
19770	303	21360	1	*1

\*1 Pin/O-Ring=1901A/B > P239



	凹 (sq.)	凸 (sq.)	L (mm)	(g)	(pce.)	W
19977A	2.1/2"	1.1/2"	145	7210	1	*1

\*1 Pin/O-Ring=1901A/B P239

Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

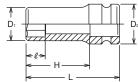
Die mit \Lambda gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués 🗥 des couples de serrage n est possible d'appriquer aux articles inlarques à des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures



# 6-point Deep Sockets 6-kant-Steckschlüssel,lang Douilles longues 6-pans 19300M





19760-250/-500



19770

Universal Joint Gelenk-Einsatz Cardan universel



19977A

Adaptor Verbindungsstück Réducteur

No Warranty Keine Garantie Sans Garantie

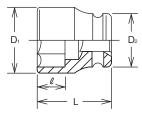


# 10400M / 10400A O



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





10099A

Adaptor Verbindungsstück Réducteur







10400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
105	165	175	86	176	19370	1	*1
110	170	175	88	179	20160	1	*1
115	175	175	90	183	21160	1	*1
120	180	175	91	185	21930	1	*1
125	188	175	94	190	23940	1	*1
130	193	175	97	194	25050	1	*1
135	200	175	101	199	26930	1	*1
140	205	175	105	205	28560	1	*1
145	210	200	106	207	29600	1	*2
150	215	200	109	212	31240	1	*2
160	228	200	114	220	35500	1	*2
165	235	200	117	224	37940	1	*2
170	240	200	118	227	39660	1	*2
175	245	200	121	231	41400	1	*2
180	255	200	122	234	45740	1	*2
185	265	200	125	238	50350	1	*2
190	275	200	125	239	54650	1	*2
200	285	200	128	245	59190	1	*2
210	295	200	135	255	64970	1	*2
215	300	200	138	260	68150	1	*2

10400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	W
4.1/8	165	175	86	176	19370	1	*1
4.1/4	168	175	87	178	19770	1	*1
4.3/8	172	175	88	180	20660	1	*1
4.1/2	175	175	89	182	21160	1	*1
4.5/8	178	175	90	183	21550	1	*1
4.3/4	180	175	91	185	21930	1	*1
4.7/8	188	175	94	190	23940	1	*1
5	188	175	95	191	24500	1	*1
5.1/8	193	175	97	194	25050	1	*1
5.1/4	197	175	100	198	25990	1	*1
5.3/8	201	175	102	202	27750	1	*1
5.1/2	205	175	105	205	28560	1	*1
5.5/8	208	200	106	208	30110	1	*2
5.3/4	212	200	108	210	30610	1	*2
5.7/8	215	200	109	212	31240	1	*2
6	219	200	110	214	32460	1	*2
6.1/8	223	200	112	216	33670	1	*2
6.1/4	227	200	114	218	34590	1	*2
6.3/8	231	200	115	221	36720	1	*2
6.1/2	235	200	117	224	37940	1	*2
6.5/8	238	200	118	226	38800	1	*2
6.3/4	241	200	119	228	39870	1	*2
6.7/8	245	200	120	230	40640	1	*2
7	251	200	121	232	43570	1	*2
7.1/8	257	200	122	234	46450	1	*2
7.1/4	263	200	123	236	48400	1	*2
7.3/8	269	200	124	238	52500	1	*2
7.1/2	275	200	125	240	55350	1	*2
7.5/8	278	200	127	242	56050	1	*2
7.3/4	282	200	129	245	57620	1	*2
7.7/8	285	200	130	248	60870	1	*2
8	290	200	132	250	62550	1	*2
8.1/8	293	200	133	251	63760	1	*2
8.1/4	295	200	135	255	64970	1	*2
8.3/8	298	200	136	258	65580	1	*2
8.1/2	300	200	138	260	68150	1	*2
8.5/8	305	200	139	262	70760	1	*2
8.3/4	310	200	140	264	73830	1	*2
8.7/8	313	200	142	267	75780	1	*2

\*1 Pin/O-Ring=2001A/B \*2 Pin/O-Ring=2002A/B

	凹 (sq.)	凸 (sq.)	L (mm)	₫∄ (g)	(pce.)	W
10099A	3.1/2"	2.1/2"	182	16870	1	*1

\*1 Pin/O-Ring=2001A/B >P239



Adapting down from bigger square drive to smaller square drive may lead to Adapting down from bigger square drive to smaller square univo may some sexessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit 🛕 gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués  $ilde{\Lambda}$  des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.



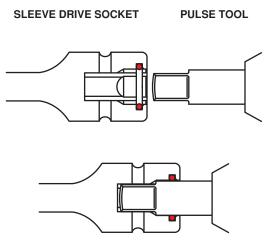


The deepened drive end of the **Sleeve-Drive** tools prevents the sometimes "wobbly" connection between pulse tool - extension - socket. An O-ring inside **Sleeve-Drive** optimizes the perfect fit of extension bars and sockets on the anvil to the effect, that the exactness of the required torque given by the pulse tool is generally improved. Further, the **Sleeve-Drive** avoids the direct transmission of vibrations on the pulse tool and finally on the operator.

Der Sleeve-Drive Vierkant-Antrieb vermeidet durch die vertiefte Passung den "Wackelkontakt" zwischen Maschine - Verlängerung - Steckschlüssel. Ein im Antriebsende der Sleeve-Drive-Steckschlüssel eingesetzter Ring optimiert den festen Sitz der Verlängerungen und Steckschlüssel auf der Schrauberspindel und sorgt somit für die unmittelbare Weitergabe des vorgegebenen Drehmomentes ohne wesentliche Drehkraftverluste. Nicht zuletzt vermeidet der Sleeve-Drive Antrieb die Übertragung von Schwingungen auf Mensch und Maschine.

Ces nouveaux outils **Sleeve-Drive** se caractérisent par un entraînement carré allongé et un joint torique incorporé. Le guidage rigide ainsi obtenu maintient les outils **Sleeve-Drive** dans l'axe de la broche de la machine et garantit une connection optimale machine-rallonges-douilles. Le jeu latéral et les vibrations engendrés par les outils traditionnels sont de ce fait supprimés. Il en résulte une transmission plus précise du coupe de serrage et un plus grand confort de travail pour l'opérateur.



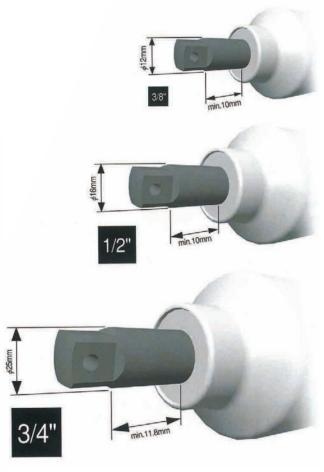


The "Sleeve Drive" Sockets and accessories are designed for use on Pulse Tools with anvils of certain lengths and diameters as shown hereunder.

Die serienmässigen "Sleeve Drive" Steckschlüssel können nur auf Impuls Schraubern mit Antriebswellen der nachstehenden Längen und Durchmesser gesteckt werden.

Les douilles "Sleeve Drive" ne peuvent être placeés que sur des axes des boulonneuses à impulsions d'une longueur et d'un diamètre selon la spécification ci-dessous.

	Anvil Diameter (mm)	Minimum Anvil Length (mm)
3/8"sq.	12	10
1/2"sq.	16	10
3/4"sq.	25	11.8



Douilles, Sleeve Drive

NV13400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫₫ (g)	(pcs.)	(1)
10	15.8	19	7	43	53	10	*1
11	17	19	8	43	54	10	*1
12	18.3	19	9	43	55	10	*1
13	19.5	22	10	43	80	10	*2
14	20.8	22	10	43	80	10	*2
15	22	22	11	43	81	10	*2
16	23.3	22	11	43	83	10	*2
17	24.5	22	11	43	85	10	*2
18	25.8	22	11	43	89	10	*2
19	27	22	11	43	98	10	*2
21	29.5	22	11	43	105	10	*2
22	30.8	22	11	43	112	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B \*2 C-Ring=1302C, Pin/O-Ring=1302A/B

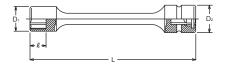
→P238-239



# NV13145-100/-150/-200







NV13145-100 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
6	13	19	6	100	108	10	*1
8	13	19	8	100	110	10	*1
10	15.5	19	10	100	112	10	*1
12	18	19	12	100	120	10	*1
13	19	19	13	100	127	10	*1
14	21	19	14	100	131	10	*1
15	22	19	15	100	133	10	*1
16	24	19	15	100	144	10	*1
17	25	19	15	100	154	10	*1

NV13145-150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)	₩
6	13	19	6	150	160	10	*1
8	13	19	8	150	160	10	*1
10	15.5	19	10	150	165	10	*1
12	18	19	12	150	168	10	*1
13	19	19	13	150	170	10	*1
14	21	19	14	150	175	10	*1
15	22	19	15	150	177	10	*1
16	24	19	15	150	190	10	*1
17	25	19	15	150	203	10	*1

NV13145-200 (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	ⅆ
6	13	19	6	200	210	10	*1
8	13	19	8	200	210	10	*1
10	15.5	19	10	200	212	10	*1
12	18	19	12	200	214	10	*1
13	19	19	13	200	218	10	*1
14	21	19	14	200	220	10	*1
15	22	19	15	200	226	10	*1
16	24	19	15	200	235	10	*1
17	25	19	15	200	250	10	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B >P238-239

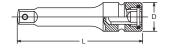
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239

# NV13760-75P/-125P/-150P/-250P

Extension Bars Verlängerungen Rallonges



	NV13760	D (mm)	L (mm)	₫Д (g)	(pcs.)	W
	75P	19	75	95	10	*1
	125P	19	125	125	10	*1
New	150P	19	150	150	10	*1
	250P	19	250	255	10	*1



# Sleeve-Drive Steckschlüssel 3/8", 1/2" Douilles, Sleeve Drive

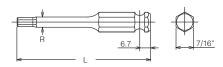
# 183H-35/-75/-150



Hex Bits Sechskant Bits Embouts, 6 pans creux







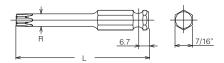
# 183T-35/-75/-150(T)



TORX® Bits TORX® Bits Embouts, TORX®







# 183T-35/-75(IP)

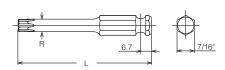


TORXPLUS® Bits TORXPLUS® Bits Embouts TORXPLUS®









	183H-35 (mm)	L (mm)	₫ <u>¯</u> (g)	(pcs.)
New	3	35	15	10
New	4	35	15	10
New	5	35	15	10
New	6	35	18	10
New	8	35	20	10
New	10	35	26	10
New	12	35	30	10
New	14	35	35	10

	183H-75 (mm)	L (mm)	R (mm)	ДД (g)	(pcs.)
New	3	75	6.0	48	10
New	4	75	6.0	48	10
New	5	75	6.5	49	10
New	6	75	7.5	51	10
New	8	75	9.5	52	10
New	10	75	-	57	10
New	12	75	-	65	10
New	14	75	_	79	10

	183H-150 (mm)	L (mm)	R (mm)	Д¯Д (g)	(pcs.)
New	4	150	6.0	111	10
New	5	150	6.5	112	10
New	6	150	7.5	114	10
New	8	150	9.5	118	10
New	10	150	-	124	10
New	12	150	-	131	10

	183T-35 (T)	L (mm)	₫Д (g)	(pcs.)
New	T30	35	18	10
New	T40	35	20	10
New	T45	35	22	10
New	T50	35	26	10
New	T55	35	30	10
New	T60	35	38	10

	183T-75 (T)	L (mm)	R (mm)	₫Д (g)	(pcs.)
New	T30	75	6.0	48	10
New	T40	75	6.9	49	10
New	T45	75	8.0	51	10
New	T50	75	9.0	52	10
New	T55	75	11.4	57	10
New	T60	75	13.5	67	10

	183T-150 (T)	L (mm)	R (mm)	₫Д (g)	(pcs.)
New	T30	150	6.0	113	10
New	T40	150	6.9	114	10
New	T45	150	8.0	116	10
New	T50	150	9.0	118	10
New	T55	150	11.4	124	10

	183T-35 (IP)	L (mm)	₫ <u>⊅</u> (g)	(pcs.)
New	30IP	35	18	10
New	40IP	35	20	10
New	45IP	35	22	10
New	50IP	35	26	10
New	55IP	35	30	10
New	60IP	35	38	10

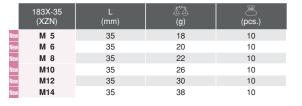
	183T-75 (IP)	L (mm)	R (mm)	₫¼ (g)	(pcs.)
New	30IP	75	6.0	48	10
New	40IP	75	6.8	49	10
New	45IP	75	8.0	51	10
New	50IP	75	9.0	52	10
New	55IP	75	11.4	57	10
New	60IP	75	13.5	67	10

TORX\* is a registered trademark of Acument Intellectual Properties, LLC.
TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

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# XZN Bits XZN Bits Embouts, XZN

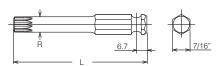
# 183X-35/-75/-150(XZN)



	183X-75 (XZN)	L (mm)	R (mm)	Д¯Д (g)	(pcs.)
New	M 5	75	6.0	48	10
New	M 6	75	6.2	49	10
New	M 8	75	7.4	51	10
New	M10	75	9.8	52	10
New	M12	75	11.7	57	10
New	M14	75	13.5	67	10

	183X-150 (XZN)	L (mm)	R (mm)	₫∄ (g)	(pcs.)
New	M 5	150	6.0	112	10
New	M 6	150	6.2	113	10
New	M 8	150	7.4	115	10
New	M10	150	9.8	120	10
New	M12	150	11.7	125	10







For DIN3126 E11.2 Bits Für DIN3126 E11.2 Bits Pour DIN3126 E11.2 Embouts

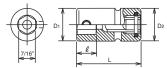








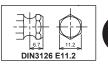




## 22.5 25 15 55 130 5 \*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239

For DIN3126 E11.2 Bits Für DIN3126 E11.2 Bits Pour DIN3126 E11.2 Embouts

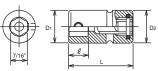






## Bit Holder for 183 series. Klingenhalter Porte-embouts NV14134

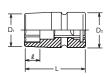




# 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans NV14400



NV14145-100/-150/-200



### \*1 19.5 20.7 \*1 23.2 \*2 24.5 \*2 25.7 \*2 \*2 28.2 \*2 30.7 \*2 \*2 33.2 \*2 34.5 \*2

- \*1 C-Ring=1401C, Pin/O-Ring=1401A/E
- \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

Douilles rallongées
D1 D2

Extended Sockets

NV14145-100 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)	W
10	15.5	25	10	100	161	10	*1
12	18	25	12	100	178	10	*1
13	19	25	13	100	175	10	*1
14	21	25	14	100	181	10	*1
15	22	25	15	100	185	10	*1
16	24	25	15	100	193	10	*1
17	25	25	15	100	201	10	*1
18	26	25	15	100	211	10	*1
19	28	25	15	100	221	10	*1

NV14145-150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)	W
10	15.5	25	10	150	200	10	*1
12	18	25	12	150	215	10	*1
13	19	25	13	150	220	10	*1
14	21	25	14	150	225	10	*1
15	22	25	15	150	230	10	*1
16	24	25	15	150	240	10	*1
17	25	25	15	150	250	10	*1
18	26	25	15	150	262	10	*1
19	28	25	15	150	275	10	*1

NV14145-200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	W
10	15.5	25	10	200	236	10	*1
12	18	25	12	200	250	10	*1
13	19	25	13	200	260	10	*1
14	21	25	14	200	270	10	*1
15	22	25	15	200	275	10	*1
16	24	25	15	200	287	10	*1
17	25	25	15	200	300	10	*1
18	26	25	15	200	310	10	*1
19	28	25	15	200	320	10	*1

<sup>\*1</sup> C-Ring=1401C, Pin/O-Ring=1401A/B → P238-239

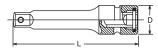
NV14760	D (mm)	L (mm)	₫∄ (g)	(pcs.)	W
75P	25	75	149	10	*1
125P	25	125	230	10	*1
175P	25	175	308	10	*1
250P	25	250	422	10	*1

<sup>\*1</sup> C-Ring=1401C, Pin/O-Ring=1401A/B >P238-239

# NV14760-75P/-125P/-175P/-250P

Extension Bars





# NV14433A-75P/-100P/-150P

Adaptors Verbindungsstücke Réducteurs

No Warranty Keine Garantie Sans Garantie







NV14433A	凹 (mm)	凸 (mm)	L (mm)	₫Д (g)	(pce.)	ⅆ
75P	1/2"	3/8"	75	120	1	*1
100P	1/2"	3/8"	100	145	1	*1
150P	1/2"	3/8"	150	187	1	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P238-239

Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

Die mit 🛕 gekennzeichneten Artikel können bei Überbelastung zu Bruch gehen. Aus Gründen Ihrer eigenen Sicherheit sollten die betreffenden Werkzeuge nie ruckartig, sondern nach und nach belastet werden, um Bruch und damit verbundene mögliche Verletzungen zu vermeiden.

Il est possible d'appliquer aux articles marqués 🚹 des couples de serrage susceptibles d'occasionner leur rupture. Pour votre propre sécurité, veuillez toujours appliquer la charge d'une manière uniforme et progressive. Ceci pour éviter ruptures et accidents.

OICCVC DITVC OCCINCIO
eeve-Drive Steckschlüssel
Douilles, Sleeve Drive

NV16400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)	(1)
17	30	44	12	65	448	5	*1
18	31.3	44	13	65	470	5	*1
19	32.5	44	13	65	455	5	*1
21	35	44	15	65	472	5	*1
22	36.3	44	16	65	471	5	*1
23	37.5	44	16	65	471	5	*1
24	38.8	44	16	65	467	5	*1
26	41.3	44	16	65	477	5	*1
27	42.5	44	16	65	473	5	*1
28	43.8	44	16	68	483	5	*1
29	45	44	18	68	464	5	*1
30	46.3	44	18	68	492	5	*1
32	48.8	44	19	70	514	5	*1
33	50	44	20	70	564	5	*1
34	51.3	44	20	70	588	5	*1
35	52.5	44	20	70	593	5	*1
36	53.8	44	20	70	598	5	*1
38	56.3	44	20	72	670	2	*1
41	60	44	22	72	687	2	*1

906

77

1116 2 \*1

44 23

46

50

66.3

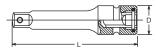
69





NV16760	D (mm)	L (mm)	Д¯Д (g)	(pce.)	Ѿ
175	44	175	870	1	*1
250	44	250	1160	1	*1
330	44	330	1460	1	*1





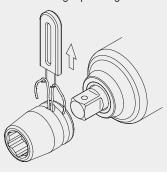
<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B -> P238-239

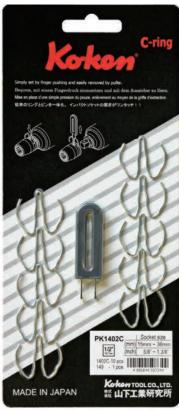


One Piece solid springs steel ring. Simply set by finger pushing and easily removed by puller. Much more convenient and safer than combination of pin and o-ring.

Aus starkem Federstahl, in einem Stück. Bequem, mit einem Fingerdruck einzusetzen und mit dem Auszieher zu lösen. Einfacher und sicherer als die Kombination Stift und Ring.

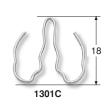
Acier à ressorts, en une pièce. Mise en place d'une simple pression du pouce, enlèvement au moyen de la griffe d'extraction. Beaucoup plus facile et sûr que la combinaison goupille/bague.

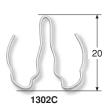


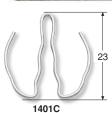


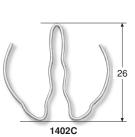
**C-Ring** 

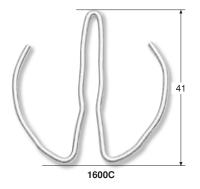
- 3			
No.		Opening (mm)	(pcs.)
1301C	3/8"	≦12	100
1302C	3/8"	>12	100
1401C	1/2"	≦14	100
1402C	1/2"	>14	100
1600C	3/4"	≦46	100
1801C	1"	≦70	100
1802C	1"	>70	50
1700C	1-1/2"	≦90	50

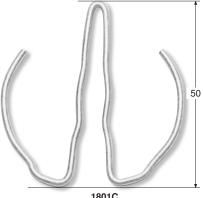












**C-Ring Set** 

•			
Set No.	Ø	C-Ring 10pcs.	Puller 1pce.
PK1301C	3/8"	1301C	+ 149
PK1302C	3/8"	1302C	+ 149
PK1401C	1/2"	1401C	+ 149
PK1402C	1/2"	1402C	+ 149
PK1600C	3/4"	1600C	+ 152
PK1801C	1"	1801C	+ 152

# **Puller**

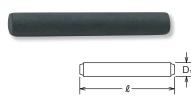
No.	Ø	(pcs.)
149	3/8" 1/2"	10
152	3/4" 1"	10











# Pin

No.	Ø	Opening (mm)	D₁ (mm)	ل (mm)	(pcs.)
1200A	1/4"		1.5	10.2	100
1301A	3/8"	≦ 12	2.5	14.5	100
1302A	3/8"	> 12	2.5	17.5	100
1401A	1/2"	≦ 14	3.5	20	100
1402A	1/2"	> 14	3.5	25	100
1500A	5/8"		4	29	100
1601A	3/4"	≦ 46	5.5	35	100
1602A	3/4"	> 46	5.5	45	100
1801A	1"	≦ 70	6	45	100
1802A	1"	> 70	6	75	50
1701A	1-1/2"	≦ 90	7	75	50
1702A	1-1/2"	> 90	7	110	50
1901A	2-1/2"	≦115	9	110	50
1902A	2-1/2"	>115	9	155	50
2001A	3-1/2"	≦140	13	155	1
2002A	3-1/2"	>140	13	180	1



No.	Ø	Opening (mm)	D <sub>2</sub> (mm)	D₃ (mm)	(pcs.)
1200B	1/4"		2.5	9	100
1301B	3/8"	≦ 12	3.5	13	100
1302B	3/8"	> 12	3.5	16	100
1401B	1/2"	≦ 14	4	19	100
1402B	1/2"	> 14	4	24	100
1500B	5/8"		5	28	100
1601B	3/4"	≦ 46	5	36	100
1602B	3/4"	> 46	5	45	100
1801B	1"	≦ 70	7	45	100
1802B	1"	> 70	7	75	50
1701B	1-1/2"	≦ 90	10	75	50
1702B	1-1/2"	> 90	10	114	50
1901B	2-1/2"	≦115	10.5	114	50
1902B	2-1/2"	>115	10.5	158	50
2001B	3-1/2"	≦140	15	158	1
2002B	3-1/2"	>140	15	183	1





IMPACT	Sq.Dr.	1/4"	3/	/Q"	1/	O"	5	/4"			1-1	/O"
Standard		1/4										12
Sockets	C-Ring		1301C	1302C	1401C	1402C	1600C	1801C	1801C	1802C	1700C	
size	0-Ring/Pin	1200A/B	1301A/B	1302A/B	1401A/B	1402A/B	1601A/B	1602A/B	1801A/B	1802A/B	1701A/B	1702A/B
4	246	•										
4.5 5	3/16	•										
5.5		•										
6	1/4	•	•									
7	9/32	•	•									
8	5/16	•	•		•							
9	11/32 3/8	•	•		•							
11	7/16	•	•		•							
12		•	•		•							
13	1/2	•		•	•							
14	9/16	•		•	•							
15 16	5/8			•		•						
17	11/16						•		•			
18				•		•	•		•			
19	3/4			•		•	•		•			
20	40/40			•		•	•		•			
21 22	13/16 7/8			•		•	•		•			
23	1/0											
24	15/16			•		•	•		•			
25	1					•	•		•			
26	1, 1/10					•	•		•			
27 28	1- 1/16					•	•		•			
29	1- 1/8						•					
30	1- 3/16					•	•		•			
31						•	•		•			
32	1- 1/4					•	•		•			
33 34	1- 5/16 1- 3/8					•	•		•			
36	1 0/0						•					
37	1- 7/16						•		•			
38	1- 1/2						•		•			
39	4 0/46						•		•			
40 41	1- 9/16 1- 5/8						•		•		•	
42	1- 3/0						•		•		•	
43	1- 11/16						•		•		•	
44							•		•		•	
45	1- 3/4						•		•		•	
46 47	1- 13/16						•	•	•		•	
48	1- 7/8							•	•		•	
	1- 15/16							•	•		•	
50								•	•		•	
52	2 2- 1/16							•	•		•	
54	2- 1/18							•	•		•	
55	2- 3/16							•	•		•	
56								•	•		•	
58	2- 1/4 2- 5/16							•	•		•	
60	2- 3/10											
62	2- 7/16								•		•	
63									•		•	
ec.	2- 1/2								•		•	
65 67	2- 9/16 2- 5/8								•		•	
68	2- 11/16										•	
70	2- 3/4								•		•	
	2- 13/16									•	•	
75	2- 7/8 2- 15/16									•	•	
10	3									•	•	
	3- 1/16									•	•	
80	3- 1/8									•	•	
85	3- 1/4									•	•	
03	3- 3/8									•		
90	3- 1/2									•	•	
	3- 5/8										•	
95	3- 3/4											•
100 105	3- 7/8											•
100	4 4- 1/8											
110	4- 1/4											•
115	4- 1/2											•
120	4- 5/8											•
105	4- 3/4 4- 7/8											•
125 130	5											•
135	5- 1/4											•
140												•
150												•
	6 6- 1/2											•
	0- 1/2		1								1	•

# SOCKETS WITH TURNABLE PLASTIC PROTECTORS STECKSCHLÜSSEL MIT DREHBAREN SCHUTZHÜLSEN AUS KUNSTSTOFF DOUILLES A PROTECTIONS PLASTIFIEES





## Safety

Turnable plastic protector increases operator's safety during assembly process.

Unsere drehbaren Kunststoff-Hülsen erhöhen die Arbeitssicherheit während des Montageprozesses.

Nos protections rotatives plastifiées augmentent la sécurité lors du montage.



## Scratch proof

Protector helps to reduce the possibility giving damage on painted, polished and sensitive surfaces. Protector is free rotation designed.

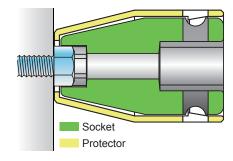
Die Protektoren vermeiden Beschädigungen an lackierten-, polierten- bzw. empfindlichen Oberflächen. Unsere Protektoren sind frei drehbar.

Les protections évitent des endommagements sur des surfaces laquées, polies ou sensibles. Nos protections ont une libre rotation.

Our Protector series is make-to-order manufacturing.

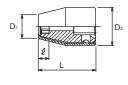
Die Kunststoffhülsen werden in Einzelfertigung hergestellt.

Les protections plastifiées sont fabriquées individuellement .





13400M (FR)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	L (mm)	(g)
8FR	15.7	22	6	33.3	40
10FR	18.2	22	7	33.3	40
12FR	20.8	22	9	33.3	43
13FR	21.8	25	10	33.3	56
14FR	23.6	25	10	33.3	56
16FR	26.1	25	11	33.3	57
17FR	27.3	25	12	33.3	60



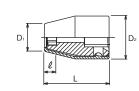
# 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans 13400M-FR

13760 (FR) 125P.FR 26.2 125 145 250P.FR 26.2 250 220



13760-125P.FR/-250P.FR

14400M (FR)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g) 
10FR	19.5	28	7	39.3	90
12FR	22	28	9	39.3	90
13FR	23.2	28	10	39.3	90
14FR	24.8	28	11	39.3	90
16FR	27	33	10	39.3	135
17FR	28.2	33	12	39.3	135
10FR	31	33	13	30.3	130



# 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans 14400M-FR



# 14760-125P.FR/-250P.FR

Extension Bars Verlängerungen Rallonges

Extension Bars Verlängerungen Rallonges

(FD)	(11111)	(111111)	(9)		
125P.FR	34.2	125	280		
250P.FR	34.2	250	480		
			-		
			No. of Contract of		
		_			
	,	1	<b>1</b> 1		
			D		
	ŭ				

115-150 (SV) 8SV

10SV

12SV

# 113-75SV/-100SV/-150SV





	1201	13.7	U	75	77
New	13SV	20.4	8	75	45
	113-100 (SV)	D (mm)	لا (mm)	L (mm)	( <b>g</b> )
	8SV	15.1	6	100	43
	10SV	16.9	7	100	47
	1261/	10.4	0	100	EΛ

8SV

10SV

13SV

15.1

16.9

10/

20.4

(g)

34

37

55

75

75

100

	113-150 (SV)	D (mm)	ℓ (mm)	L (mm)	(g)
	8SV	15.1	4	150	62
	10SV	16.9	4.5	150	66
	12SV	19.4	6	150	72
ew	13SV	20.4	8	150	80

# 115-75SV/-100SV/-150SV





MAGNET	
	<del> </del>
9.5	6.35

L (mm)	(g)
150	63
150	70
150	70

	115-75 (SV)	D (mm)	لا (mm)	L (mm)	(g)
	8SV	15.1	3.5	75	35
	10SV	16.9	4.2	75	40
	12SV	19.4	5.6	75	48
New	13SV	20.4	6	75	54

	115-100 (SV)	D (mm)	لا (mm)	L (mm)	(a) T
	8SV	15.1	3.5	100	44
	10SV	16.9	4.2	100	52
	12SV	19.4	5.6	100	60
New	13SV	20.4	6	100	67

# 115G-100FR/-150FR/-200FR

3.5

42

5.6

15.1

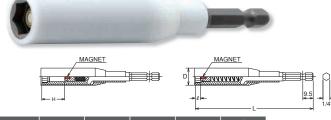
16.9

19.4

20.4



Nut Setters with sliding Magnet Steckschlüssel Klingen mit versenkbarem Magnet Embouts avec aimant, glissant pour écrous



150

					,-	_
	115G-200 (FR)	D (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)
	8FR	15.1	4	26	200	90
	10FR	16.9	4.5	26	200	100
	12FR	19.3	6	26	200	125
New	13FR	20.4	6.5	25	200	135

	115G-100 (FR)	D (mm)	ℓ (mm)	H (mm)	L (mm)	Д <sup>™</sup> Д (g)
	8FR	15.1	4	26	100	55
	10FR	16.9	4.5	26	100	60
	12FR	19.3	6	26	100	80
New	13FR	20.4	6.5	25	100	85
	115G-150	D	0	н	1	Æ'ሕ

	115G-150 (FR)	D (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)
	8FR	15.1	4	26	150	75
	10FR	16.9	4.5	26	150	80
	12FR	19.3	6	26	150	100
New	13FR	20.4	6.5	25	150	110

### **REPLACEMENT**

Remove a damaged Protector and put a new Protector on socket / Extension bar by pressing. For your safety, worn out or cracked Protector must be replaced.

## **AUSTAUSCH**

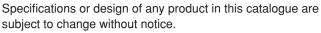
Entfernen Sie defekte Protektoren und ersetzen Sie diese auf Ihrem Steckschlüssel/Verlängerung mittels einer Presse.

Bitte tauschen Sie zu Ihrer Sicherheit verschlissene Protektoren aus!

### **REMPLACEMENT**

Retirez les protections défectueuses, remplacez celles-ci et fixez-les sur les douilles/rallonges à l'aide d'une presse.

Pour votre sécurité remplacez toute protection défectueuse.



Wir behalten uns das Recht vor, jedes in diesem Katalog gezeigte Werkzeug, auch ohne vorherige Ankündigung, in Ausführung und Design ändern zu dürfen.

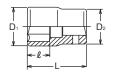
Nous nous réservons le droit de modifier les modèles et les dimensions des outils présentés dans ce catalogue et ce sans autre notification préalable.





# 22400M O 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans



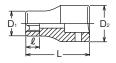


22400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
6	9.2	11.2	5.5	22	9	10
7	10.3	11.2	6	22	9	10
8	11.2	11.7	6.9	22	11	10
10	14.3	12.9	7.7	22	15	10
12	16.8	15.5	9.3	22	23	10
13	18	16.4	9.8	22	23	10

# 22425







22425 (E)	D <sub>1</sub> (mm)	D₂ (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
E 4	5.4	11.2	4.6	22	7	10
E 5	6.7	11.2	5.2	22	8	10
E 6	7.7	11.2	5.4	22	8	10
E 7	8.3	11.2	6.6	22	9	10
E 8	9.6	11.2	7	22	9	10
E10	11.3	12	8.2	22	10	10

# TORX®



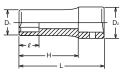
S <sub>1</sub> (ref. mm) 3.7 4.6 5.6 6.1 7.4 9.3 9.9 11.0 12.8 14.6 16.5 1			
31 (lef. IIIII) 3.7 4.0 5.0 6.1 7.4 9.3 9.9 11.0 12.6 14.6 16.5 1	18.3 20.1	22.0 23	3.7 25.5
S <sub>2</sub> (ref. mm) 2.7 3.3 4.0 4.3 5.3 6.8 7.1 7.9 9.2 10.5 11.9 1	13.2 14.8	15.7 17	7.5 18.3

# 22300M / 22300A



6-point Sockets, deep 6-kant Steckschlüssel, lang Douilles longues, 6-pans





22300M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
7	10.3	11.2	8	40	50	24	10
8	11.2	11.7	9	40	50	28	10
10	14.3	12.9	11	39	50	33	10
12	16.8	15.5	13	39	50	50	10
13	18	16.4	14	39	50	50	10

22300A (inch)	D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
1/4	9.6	11.2	7	40	50	24	10
5/16	11.2	11.7	9	40	50	28	10
3/8	13.7	12.5	11	40	50	33	10

Industrial sockets are thin walled sockets and to be used on electric or pneumatic nut runners for assembly work only.

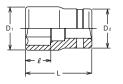
Bei den Industrial Steckschlüsseln handelt es sich um dünnwandige Werkzeuge, die ausschliesslich auf pneumatischen und elektrischen Drehschraubern (nicht schlagend) verwendet werden dürfen.

Les douilles Industrielles à paroi mince ne doivent être utilisées que sur des vis à fixer par visseuses (nonchocs).

# 23400M / 23400A



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





(inch)	(mm)	(mm)	(mm)	(mm)	(g)	(pcs.)
5/16	12	17.3	6.9	26	22	10
3/8	13.9	17.3	8	26	22	10
7/16	15.8	17.3	9.3	26	25	10
1/2	18	17	9.4	26	24	10
9/16	19.5	18.5	11	27	31	10
11/16	24.6	22.5	13	30	51	10
3/4	26	23.5	13.5	30	63	10

23400N

19.5

18.5

9.9

10.8

14.5

15.8

16.8

19.5

23.5

24.6

17.3

17.3

17.3

17.3

17.3

17.3

18.5

19.5

21.5

22.5

23.5

6.5

6.9

9.3

9.4

11.5

12.5

13.5

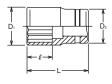
14.5

23405M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)
8	12	17.3	6.9	26	22	10
10	14.5	17.3	8	26	24	10
12	16.8	17.3	9	26	25	10





12-point Sockets 12-kant Steckschlüssel Douilles 12-pans





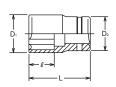
23410M (mm)	D₁ (mm)	D <sub>2</sub> (mm)	(mm)	L (mm)	ДД (g)	(pcs.)
8	12	17.3	6.9	26	22	10
10	14.5	17.3	8	26	24	10
12	16.8	17.3	9	26	25	10
13	18	17	9.4	26	24	10
14	19.5	18.5	11	27	31	10
15	21	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.5	21.5	12.5	29	51	10
18	24.6	22.5	13	30	51	10
19	26	23.5	13.5	30	53	10

23425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
E 5	7	17.3	5.2	26	20	10
E 6	8.3	17.3	5.4	26	21	10
E 7	8.9	17.3	6.6	26	22	10
E 8	9.9	17.3	7	26	23	10
E10	12	17.3	8.2	26	24	10
E11	13.3	17.3	8.7	26	25	10
E12	14.5	17.3	9.3	26	26	10
E14	15.8	17.3	10.6	26	27	10
E16	18	17	11.8	26	27	10

# 23410M



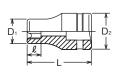
Surface Drive Sockets Surface Drive Steckschlüssel Douilles, Surface Drive







TORX® Sockets TORX® Steckschlüssel Douilles TORX®





Steckschlüssel, Industrie-Ausführung Clés à douilles, finissage industriel

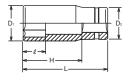


# 23300M / 23300A



6-point Sockets, deep 6-kant Steckschlüssel, lang Douilles longues, 6-pans





23300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
8	12	17.4	9	41.5	55	45	10
10	14.5	17.4	11	41.5	55	52	10
11	16	17.2	12	41.5	55	55	10
12	16.8	17.2	13	41.5	55	58	10
13	18	17	14	41.5	55	57	10
14	20	18	16	41.5	55	68	10
15	21	20	16	40.5	55	78	10
16	22	20	17	40.5	55	79	10
17	23.5	22	18	40.5	55	96	10
18	24.5	23	19	39.5	55	96	10
19	25	24	20	39.5	55	102	10

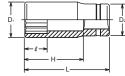
23300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
5/16	12	17.4	9	41.5	55	45	10
3/8	14	17.4	11	41.5	55	51	10
7/16	16	17.2	12	41.5	55	55	10
1/2	18	17	14	41.5	55	57	10
9/16	20	18	16	41.5	55	68	10
11/16	23.5	22	18	40.5	55	96	10
3/4	25	24	20	39.5	55	102	10

# 23305M



12-point Deep Sockets 12-kant Steckschlüssel,lang Douilles longues 12-pans





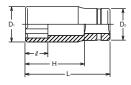
23305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
8	12	17.4	9	41.5	55	45	10
10	14.5	17.4	11	41.5	55	52	10
12	16.8	17.2	13	41.5	55	58	10
14	20	18	16	41.5	55	68	10

# 23310M ()



Surface Drive Sockets, deep Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive





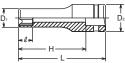
23310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫¾ (g)	(pcs.)
8	12	17.4	9	41.5	55	45	10
10	14.5	17.4	11	41.5	55	52	10
12	16.8	17.2	13	41.5	55	58	10
13	18	17	14	41.5	55	57	10
14	20	18	16	41.5	55	68	10
15	21	20	16	40.5	55	80	10
17	23.5	22	18	40.5	55	96	10

# 23325



TORX® Deep Sockets TORX® Steckschlüssel, lang Douilles longues TORX®





23325 (E)	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
E 5	6.9	17.4	5.2	41.5	55	50	10
E 6	7.9	17.4	5.4	41.5	55	52	10
E 7	8.9	17.4	6.6	41.5	55	55	10
E 8	9.9	17.4	7	41.5	55	58	10
E10	11.8	17.2	8.2	41.5	55	60	10
E12	14.5	17.2	9.3	41.5	55	68	10
E14	15.7	17.2	10.6	41.5	55	77	10
E16	18	17	11.8	41.5	55	80	10

# 23760-75P/-125P/-250P

Extension Bars Verlängerungen Rallonges



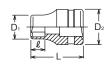


23760	D (mm)	L (mm)	₫ <u>"</u>	(pcs.)
75P	18	75	70	10
125P	18	125	110	10
250P	18	250	200	5

# 24400M / 24400A



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





10	15.3	21	9	37	45	10
11	16.5	21	9.5	37	46	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24.1	23	12.5	37	69	10
18	25.1	24	13	37	74	10
19	26.6	25	14	38	89	10
20	27.9	26	15	38	92	10
21	29.1	27	15.5	38	102	10
22	30.1	28	16	40	113	10
23	31.5	29	16.5	40	128	10
24	32.9	30	17	42	140	5
26	35	32	19	42	165	5
27	36.5	33	19.5	43	196	5
29	39	35	20.5	43	190	5
30	40	36	22	46	222	5
32	42.8	38	23	46	250	5
244004	D.	D.	0	i	- Λ <sup>∨</sup> Λ	

D<sub>2</sub> (mm)

24400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
7/16	16.5	21	9.5	37	46	10
1/2	19	22	10.5	37	53	10
9/16	20.3	22	11	37	56	10
5/8	22.9	22	12	37	62	10
3/4	26.6	25	14	38	89	10
15/16	32.9	30	17	42	140	10

24405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	Д <sup>™</sup> Д (g)	(pcs.)
10	15.3	21	9	37	45	10
12	17.8	21	10	37	47	10
14	20.3	22	11	37	56	10
17	24.1	23	12.5	37	69	10
19	26.6	25	14	38	89	10

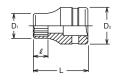
24410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
10	15.3	21	9	37	45	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24.1	23	12.5	37	69	10
18	25.1	24	13	37	74	10
19	26.6	25	14	38	89	10
21	29.1	27	15.5	38	102	10
22	30.1	28	16	40	113	10
24	32.9	30	17	42	140	10

24425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫ <u>¯</u> Д (g)	(pcs.)
E10	13.2	21	8.2	36	68	10
E12	14.6	21	9.3	37	70	10
E14	16.5	21	10.6	37	75	10
E16	19	21.9	11.8	37	80	10
E18	20.3	21.9	13	37	83	10
E20	22.9	22	14.4	37	121	10

# 24405M



12-point Sockets 12-kant Steckschlüssel Douilles 12-pans

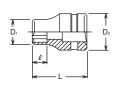




# 24410M



Surface Drive Sockets Surface Drive Steckschlüssel Douilles, Surface Drive

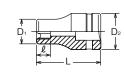




# 24425



TORX® Sockets TORX® Steckschlüssel Douilles TORX®







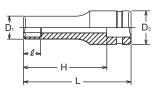
		E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24	E26	E28
C4	S <sub>1</sub>	(ref. mm) (ref. mm)	3.7	4.6	5.6	6.1	7.4	9.3	9.9	11.0	12.8	14.6	16.5	18.3	20.1	22.0	23.7	25.5
51	S <sub>2</sub>	(ref. mm)	2.7	3.3	4.0	4.3	5.3	6.8	7.1	7.9	9.2	10.5	11.9	13.2	14.8	15.7	17.5	18.3

# 24300M / 24300A



6-point Sockets, deep 6-kant Steckschlüssel, lang Douilles longues, 6-pans





### 24300M 15.3 16.5 17.8 21.8 20.3 21.8 21.5 21.8 22.8 26.5 27.8 32.8 36.5 42.8

24300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
7/16	16.5	21	12	59	77	95	10
1/2	19	21.8	14	59	77	107	10
9/16	20.3	21.8	15	59	77	118	10
5/8	22.8	22	17	59	77	141	10
21/32	24	23	18	59	77	150	10
11/16	25	24	19	59	77	164	10
3/4	26.5	25	20	58	77	177	10
13/16	29	27	23	58	77	187	10
15/16	32.8	30	27	57	77	252	10

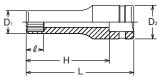
24305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	\$\bar{\Pi}{\Pi}\$	(pcs.)
(111111)	(111111)	(111111)	(111111)	(111111)	(111111)	(g)	(pcs.)
10	15.3	21	11	59	77	91	10
12	17.8	21	13	59	77	99	10
14	20.3	21.8	16	59	77	118	10
17	24	23	18	59	77	150	10
19	26.5	25	20	58	77	177	10

# 24305M



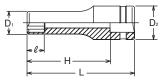
12-point Deep Sockets 12-kant Steckschlüssel,lang Douilles longues 12-pans





# Surface Drive Sockets, deep Surface Drive Steckschlüssel, lang Douilles longues, Surface Drive 24310M (





24310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
10	15.3	21	11	59	77	91	10
12	17.8	21	13	59	77	99	10
13	19	21.8	14	59	77	107	10
14	20.3	21.8	16	59	77	118	10
15	21.5	21.8	16	59	77	123	10
16	22.8	22	17	59	77	141	10
17	24	23	18	59	77	150	10
18	25	24	19	59	77	160	10
19	26.5	25	20	58	77	177	10
21	29	27	23	58	77	187	10
22	30	28	27	57	77	202	10
24	32.8	30	27	57	77	250	10

24/00-/3P/-123P/-23UP v	xtension Bars erlängerunge allonges
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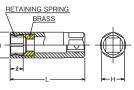
2	24760	D (mm)	L (mm)	Д¯Д (g)	(pcs.)
	75P	24	75	140	10
	125P	24	125	200	5
	250P	24	250	370	5

# AUTOMOTIVE TOOLS WERKZEUGE FÜR KFZ UND NUTZFAHRZEUGE OUTILS POUR POIDS LOURDS ET VÉHICULES UTILITAIRES









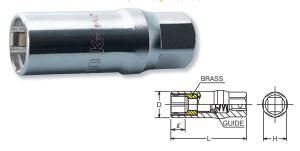
3300C (mm)		D (mm)	l (mm)	L (mm)	H (mm)	₫Д (g)	(pcs.)
13		17.5	11	70	17	66	10
14		19	11	70	17	82	10
16	3/8"	20.5	13	70	17	91	10
18	ш	23.9	12	70	21	140	10
20.8		26.9	13.5	70	22	132	10

4300C (mm)		D (mm)	l (mm)	L (mm)	H (mm)	₫∄ (g)	(pcs.)
16		21	13	70	21	101	10
18	1/2"	23.9	12	70	21	132	10
20.8	ш	26.9	13.5	70	22	130	10

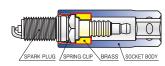
#### 3300CB



Spark Plug Socket (BMW) Zündkerzen-Schlüssel (BMW) Douille pour bougies (BMW)



						₽73	
3300CB (mm)		D (mm)	l (mm)	L (mm)	H (mm)	⊕ ⊕ (g)	(pcs.)
16	3/8"	22.8	13	65	19	118	10



SPARK PLUG SOCKETS with SPRING CLIP
An internal brass guide holds the clips in place, which ensures perfect alignment of the spark plug into the threaded plug hole of the cylinder head,

thus preventig thread damage.

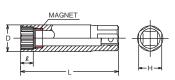
The brass guide also eliminates stress loading and possible damage to the ceramic insulator of the spark plug.

#### 3305P



Spark Plug Socket with Magnet, 12-pt. opening Zündkerzensteckschlüssel mit Magnet, 12-kant Douille pour bougies, avec aimant, 12-pans





	3305P (mm)		D (mm)	l (mm)	L (mm)	H (mm)	₫∄ (g)	(pcs.)
	14	2/0"	19	8	70	17	87	10
New	16	3/0	20.5	8	70	17	100	10

Spark Plug Socket with Magnet, 12-pt. opening: 3305P-14



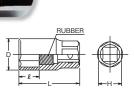


# 3300S / 4300S



Spark Plug Sockets with Rubber Zündkerzen-Schlüssel mit Gummieinsatz Douille pour bougies avec caoutchouc





3300S (mm)		D (mm)	l (mm)	L (mm)	H (mm)	₫Д (g)	(pcs.)
16		20.9	19	70	17	100	10
18	3/8"	23.9	21	70	21	145	10
20.8		26.9	27	70	22	140	10

4300S (mm)		D (mm)	l (mm)	L (mm)	H (mm)	₫Д (g)	(pcs.)
16		21	19	70	21	100	10
18	1/2"	23.9	21	70	21	130	10
20.8	ш	26.9	27	70	22	135	10

3300C-180 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
14	$\overline{}$	19	18	11	180	205	5
16	3/8"	20.5	18	13	180	220	5
20.8		26.9	18	13.5	180	260	5

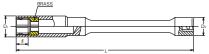
3300C-250 (mm)		D <sub>1</sub> (mm)	D₂ (mm)	ل (mm)	L (mm)	∆~∆ (g)	(pcs.)
14		19	18	11	250	271	5
16	3/8"	20.5	18	13	250	290	5
20.8	ш	26.9	18	13.5	250	340	5



# 3300C-180/-250 C

Spark Plug Sockets with Spring Clips Zündkerzen-Schlüssel mit Haltefedern Douille avec ressorts de retenue pour bougies





3305P-250 (



Spark Plug Socket with Magnet, 12pt. opening Zündkerzensteckschlüssel mit Magnet, 12-kant Douille pour bougies, avec aimant, 12-pans



3305P-250 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
14	3/8"	19	18	8	250	250	5

	3340C (mm)	Ø	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)
	14		19	19	11	88	109	10
	16	3/8"	21	19	13	88	122	10
New	18	3/0	23.9	19	12	88	145	10
	20.8		26.8	19	13.5	88	174	10

4340C (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	
16	1/0"	21	25	13	100	220	10	
20.8	1/2	26.8	25	13.5	100	250	10	

	3345P (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
Nev	14	3/8"	19	19	8	88	110	10



# 3340C / 4340C

Universal Spark Plug Sockets with Spring Clips Gelenk-Zündkerzenschlüssel mit Haltefeder Douille articulée avec ressorts de retenue pour bougies



Universal Spark Plug Socket with Magnet, 12-point opening Gelenk-Zündkerzensteckschlüssel mit Magnet, 12-kant Ausführung Clé pour bougies à déclenchement articulée avec aimant, 12 pans 3345P (

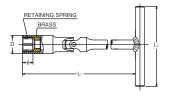




127C-315 (mm)	D (mm)	l (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	₫∄ (g)	(pce.)
14	19	11	315	150	520	1
16	21	13	315	150	530	1
18	23.9	12	315	150	590	1
20.8	26.8	13.5	315	150	590	1

6





3751N

Cliquet pour bougies à déclenchement 25Nm



#### Torque Ratchet for Spark plugs Drehmoment-Knarre für Zündkerzen Cliquet pour bougies à déclenchement 25Nm 3751J



#### TORQUE RATCHET

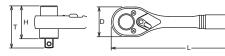
The torque is set at 25Nm. When the torque is loaded higher than 25Nm, the gear slips and no increased torque is transmitted.  $\label{eq:cylinder} \textbf{Cylinder heads and spark plugs are protected by this mechanism.}$ 

#### DREHMOMENT-KNARRE

Die Knarre ist auf ein Drehmoment von 25Nm eingestellt. Ist das Drehmoment von 25Nm erreicht, springt das innere Getriebe über. Dies schont die Zündkerzengewinde am Zylinderkopf.

#### CLIQUET À DÉCLENCEMENT

Le cliquet est fixé à un torque d'une capacité maximale de 25NM. Une fois les 25NM atteints, ce mécanisme évite tout dépassement du cliquet.



		D (mm)	T (mm)	H (mm)	L (mm)	₫Д (g)	(pce.)
3751N-25	2/0"	34	57	43	178	320	1
3751J-25	3/0	34	57	43	178	320	1

## 3225A

Set for Torque Controlled Installation of Spark Plugs Set zur Drehmoment kontrollierten Montage von Zündkerzen Jeu qui permet la rotation controlée lors du montage des bougies à déclenchement

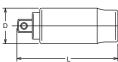


3225A	4 Pieces Set/₷७=960g
METAL CASE:W215×H80×T47m	m
Sockets	Accessories
3300C Spark Plug Sockets 16, 20.8	3751J-25 3763-125

# 3701-20Nm/-30Nm

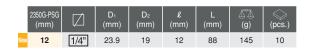
Torque Adaptors 20Nm / 30Nm Drehmoment-Verbindungsstücke 20Nm / 30Nm Adaptateurs dynamométriques 20Nm / 30Nm





3701	$\square$	D (mm)	L (mm)	₫₫ (g)	(pce.)
20Nm	2/0"	25.5	75	178	1
30Nm	3/6	28	75	220	1





3341G-70 (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	Д¯Д (g)	(pcs.)
10		14.5	19	6	70	76	10
11	3/8"	15.8	19	6	70	80	10
12		17	19	6	70	85	10

	3341G-89 (mm)		D₁ (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	Д¯Д (g)	(pcs.)
	8		12	19	7.5	89	82	10
	9	3/8"	13.3	19	7.5	89	87	10
	10	3/6	14.5	19	6	89	92	10
New	12(DP52)		17	19	6	89	101	10

#### GLOW PLUG SOCKETS, NUT GRIP®

Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.

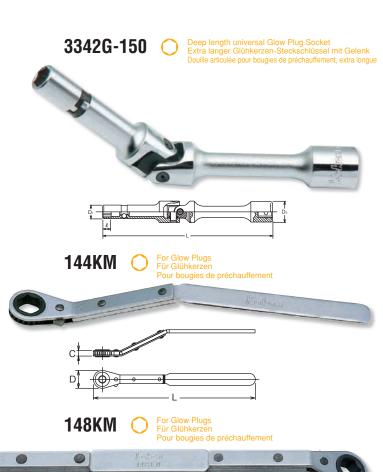
Die zwei Kugeln in der 6-kant Öffnung unserer NUT GRIP® Glühkerzensteckschlüssel halten die Zündkerze sicher im Steckschlüssel. Dies erlaubt ein Arbeiten auch an schwer zugänglichen Stellen.

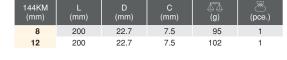
Les deux billes se trouvant dans l'ouverture de notre NUT GRIP® (6 pans) pour bougies de préchauffement, maintiennent la bougie de déclenchement dans la douille. Ceci permet l'accès dans les endroits difficilement accessibles.

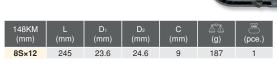


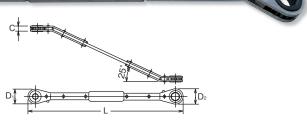
3342G-150 (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)
8	3/8"	12	18	7.5	150	137	10









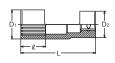


## SP4305M-77



Socket for Diesel engine injectors Steckschlüssel für Diesel-Einspritzüsen Douilles spéciales pour injecteurs





SP4305M-77 (mm)	Ø	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
27	1/2"	36.5	33	28	77	212	10

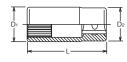
SP4305M.77-27

For fuel injection pump of BMW diesel cars

4133

Socket for Diesel engine injectors Steckschlüssel für Diesel-Einspritzüsen Douilles spéciales pour injecteurs





		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	₫¼ (g)	(pcs.)
4133	1/2"	23.9	23	55	86	10

For fuel injection pump of M.B diesel cars.









4122-72 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	D₃ (mm)	L (mm)	₫Д (g)	(pcs.)
22	1/2"	28.5	27	22	72	150	10

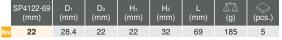
For M.B Trucks, Holder nut of injection post.

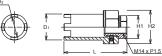


Diesel Injection Holder Nut Socket Steckschlüssel für Einspritzdüsen Douilles pour injecteur diesel







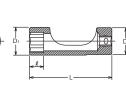


# 3300FN ()



Flare Nut Sockets Geschlitzte Steckschlüssel für Überwurfmuttern Douilles à tuyauter







RS3300FN/6 Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



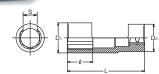
	3300FN (mm)		D₁ (mm)	D <sub>2</sub> (mm)	(mm)	(mm)	(mm)	⊕ ⊕ (g)	(pcs.)
	8		14.5	17.3	6	53	6.4	38	10
	9		16	17.3	7	53	6.8	41	10
	10		16.8	17.2	7.5	53	7.2	42	10
	11		18	17	8.5	53	8.3	42	10
	12		20	18	9	53	8.8	50	10
	13		21.1	20	9.5	62	9.4	66	10
	14	3/8"	22	20	10.5	62	10.5	66	10
	15	3/0	23	22	11	70	11.5	82	10
	16		24	23	11.5	70	12	90	10
	17		25	24	12.5	80	13	110	10
	18		27	25	13	80	13.5	120	10
	19		28	26	14	80	14.5	130	10
	22		32	29.5	16	80	16	180	10
ew	24		34.5	31.5	17	80	17	200	10

RS3300FN/6	6 Pieces Set/Rail 150mm	₫Д (g)		
8, 10, 12, 14, 17, 19				

SP4300M-85 SP4300M-110

Special socket for Lambda Probes Spezialsteckschlüssel für Lambda Sonden Douilles spéciales pour sonde Lambda





		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	S (mm)	Д¯Д (g)	(pcs.)
SP4300M.85-22	1/0"	33	30	29	85	8	228	10
SP4300M.110-22	1/2	33	30	34	110	8	279	10



FLARE NUT SOCKET Socket for Lambda Probes Open section allows for use with wire/connector.

#### 24 32.5 27 17 40 57 24 157 10 26 35 27 19 40 57 24 170 10 27 36.1 27 19.5 40 57 24 175 10

Removes and installs oil pressure switches

4300H (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
27(8P)	1/2"	34	27	18.5	37	57	152	10

#### 4300H(8P) series

Socket for Switches, Mercedes Benz and MAN

4010M-100 (mm)	$\square$	D (mm)	H (mm)	L (mm)	₫Д (g)	(pcs.)
8(12P)	1/0"	23	63.5	100	132	10
10(12P)	1/2	23	63.5	100	135	10

4010M-120 (mm)		D (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
8(12P)	1/0"	23	83.5	120	151	10
10(12P)	1/2	23	83.5	120	155	10





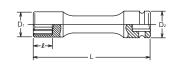
Cylinder head bolt socket for TOYOTA 4010M(12P) is Double Hex bit socket. XZN(Triple Square) bit socket has different shape.

	$\square$	D (mm)	H (mm)	L (mm)	₫ <u>¯</u> Д (g)	(pcs.)
ST4027.140	1/2"	23	103.5	140	155	10





Head Bolt Bit Socket for VW/AUDI ST4027-140 can not substitute with 3027, 4027-CV bit series.



13145M-150 (12P) (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫₫ (g)	(pce.)	(D)
10	2/0"	15.8	19	10	150	120	1	*1
12	3/0	18.3	19	12	150	128	1	*1

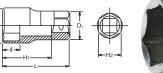
<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A•B -> P238-239

16305M (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	ДД (g)	(pcs.)	W
14		26.3	44	14	74	100	500	2	*1
17	3/4"	30	44	17	74	100	544	2	*1
19	3/4	32.5	44	19	74	100	655	2	*1
22		36.3	44	22	74	100	700	2	*1

<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A•B -> P238-239

# 4300H



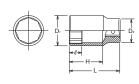








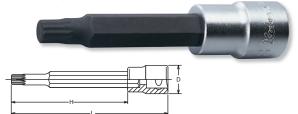
8-point Sockets 8-kant Steckschlüssel Douilles 8-pans





# 4010M-100/-120 (12P)

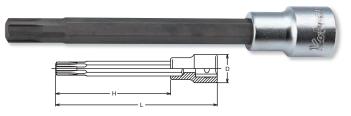




ST4027-140



Head Bolt Bit Socket for VW/AUDI Bit Steckschlüssel für Zylinderkopfschrauben VW/AUDI Douilles tournevis spéciales pour boulons de culasse VW/AUDI



# 13145M-150/-200 (12P)



Extra Long Sockets Schaftsteckschlüssel



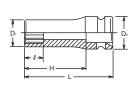
13145M.200 (12P) (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	ДĨД (g)	(pce.)	W
10	3/8"	15.8	19	10	200	151	1	*1
12	3/0	18.3	19	12	200	159	1	*1

<sup>\*1</sup> C-Ring=1301C, Pin/O-Ring=1301A/B > P238-239





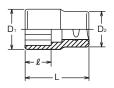












4109M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)
14		26.8	26	11	38	110	10
17		30	28	12.5	40	140	10
19	1/2"	31.5	29	14	40	150	10
21.5	ш	35	32	16	40	170	10
23		37	34	16.5	43	180	10

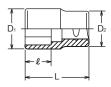
4109M series For Lubrication service

#### 4111M



6-point Sockets 6-kant Steckschlüssel Douilles 6-pans





4111M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
24	1/2"	32	30	17	40	133	10

4111M

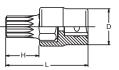
For Lubrication service

# 4020-60 (MH)



Bit Socket for XZN-Screws with hole Steckschlüssel für XZN-Schrauben mit Loch Douilles tournevis avec trou pour empreinte XZN





# 1/2"



4020-60-MH16 Specially designed for oil drain plug on gearbox of AUDI, VW,

# 3110M / 3110A







3110M (mm)		D (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pcs.)
6		18	10	28	30	10
8	3/8"	18	10	28	30	10
10		18	10	28	33	10
12		18	10	28	37	10

3110A (inch)		D (mm)	ℓ (mm)	L (mm)	₫₫ (g)	(pcs.)
5/16		18	10	28	30	10
3/8	3/8"	18	10	28	33	10
1/2		18	10	28	37	10



4110M / 4110A 4-point Male Sockets Öldienst-Steckschlüssel, Vierkant Douilles mâles 4-pans





4110M (mm)		D (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
8		24	10	32	57	10
10		24	10	32	62	10
10.5		24	10	32	64	10
12	1/2"	24	10	32	64	10
13	1/2	24	10	32	66	10
13.5		24	10	32	67	10
19		25	15	37	101	10
20		26	15	37	114	10

4110A (inch)		D (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
3/8	1/2"	24	10	32	62	10
1/2	1/2	24	10	32	64	10



158	L₁	L <sub>2</sub>	d	₫Д	(pce.)
(mm)	(mm)	(mm)	(mm)	(g)	
8S×10S	63	230	13	319	1

Drain Plug Keys 8S×10S, 8H×3/8H, 10H×11H, 12H×13H, 14H×17H, 19H

4102 Drain Plug Key Adaptor

3012M-25

(mm)

8S×10S

8H×3/8H

10H×11H

12H×13H

14H×17H

1/2"

New 36 47.2

3/8"

METAL CASE:W190×H59×T45mm

	<u> </u>
d	JJJ Ļ
L2	-

3012M-25



Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux





Drain Plug Keys Set Öldienst-Satz Jeu d'embouts pour le montage et démontage des bouchons de vidange





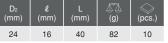


4-point / 6-point Male bits Innenvierkant / Innensechskantsteckschlüssel Embouts måles 4-pans / 6-pans









(g)

<u></u>				
	<b>←</b> ℓ→			
	<	L —	>	



	3400M-24 (mm)	$\square$	D₁ (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)
New	27		36.5	21.5	13.5	24	76	10
New	30	2/2"	40	25	13.5	24	91	10
M	22	13/8 I	42 B	20	12.5	24	100	10

13.5









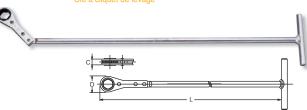
Push and Pull-Ratchet Hub Knarre Clé à cliquet de levage



154K ()







14 480 24.6 9 280 1

154K-14

CARDBOARD BOX

150.14H Sockets

150-14H (



Socket, For 154K Einsätze für 154K Douilles pour 154K





150-14H (mm)	D (mm)	لا (mm)	L (mm)	₫∄ (g)	(pcs.)
10	16	5	17	16	10
12	17.3	5	18	14	10
14	19.2	7	21	17	10

145LH3/8F



Belt Tension Pulley Wrench Knarren-Ringschlüssel für Riemen-Spannrolle Clé multicran à cliquet pour galet-tendeur









3/8"

10S

25 15.5 90 10

**Belt Tension Pulley Wrench** For LH-10S bolt on TOYOTA engines 1ZZ (1.8L), 1AZ (2.0L) and 2AZ (2.4L), belt

This item has less strength due to the special design.

100

1/2" Sq.Dr. Generator Service Set 1/2" Lichtmaschinen-Service Satz Jeu 1/2" pour l'entretien des générateurs éléctriques 4282







For removing and installing belt pulley at the generator.

1210E

Door Hinge Wrench Set Montagesatz für Kfz-Türscharniere Jeux d'outils spéciaux pour charnières de portes



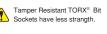


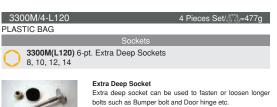


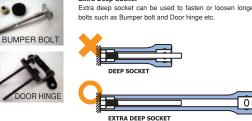


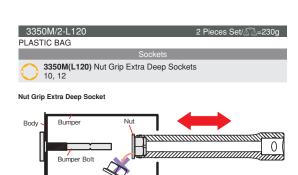
#### For Air Bag

For air-bag unit in hard to reach places in or around the steering wheel













3300M/4-L120





TORX° is a registered trademark of Acument Intellectual Properties, LLC.
TORX° ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX° est une marque déposée de Acument Intellectual Properties, LLC.







Long shank Screw Screwdriver



168T(250)	ℓ	L	₫¼	(pce.)
(PR)	(mm)	(mm)	(g)	
20PR	250	350	85	1

168T(250) (T)	ℓ (mm)	L (mm)	Д¯Д (g)	(pce.)
T20	250	350	85	1
T25	250	350	85	1
T30	250	360	120	1

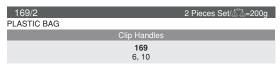




1212 PLASTIC BAG **168T(250)** 20PR **168T(250)** T20, T25, T30

Door Trim Pad Tool
Demontagehebel für Türclips
Levier pour le démontage des garnitures de portes
Door Trim Pad Tool, 2 pieces set
Demontagehebel für Türclips, Satz 2-teiling
Jeu, levier pour le démontage des garnitures de portes 169/2 169





169	ℓ (mm)	L (mm)	ДĨД (g)	(pcs.)
6	115	215	80	2
10	120	230	110	2





Clip Handle

Window Molding Remover Zum Lösen von Fenstergummis Pour le démontage des joints de vitres **169WM** 



	ل (mm)	L (mm)	₫∄ (g)	(pcs.)
169WM	100	210	90	2



Window Molding Remover











169HR

169BP	T×W (mm)	ل (mm)	L (mm)	₫Д (g)	(pcs.)
1.8×13	1.8×13	50	150	60	2



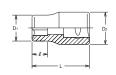


Quick Fastener

For Battery Screws Für Batterie-Verschlussstopfen Pour vis de batterie 169BP

4425 (E)		D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)
E10N		13.2	21	8.2	36	47	10
E12N		14.6	21	9.3	37	48	10
E14N	1/2"	16.5	21	10.6	37	50	10
E16N	1/2	19	22	11.8	37	60	10
E18N		20.3	22	13	37	60	10
E20N		22.8	22	14.4	37	65	10







RS4425/6-N	6 Pieces Set/Rail 200mm	₫Д (g)		
E10N, E12N, E14N, E16N, E18N, E20N				



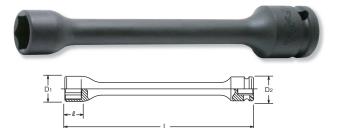
Engine type : QR/MR Flywheel bolt for NISSAN: E20N











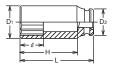


Universal Double Joint Doppelgelenk-Einsatz Cardan universel double









# 4101 / 6101

Sockets for Slotted Heads
Steckschlüssel für Schlitzschrauben
Douilles tournevis pour vis à fente





13145A-150 (inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫₫ (g)	(pce.)	(D)
9/16(D20)	3/8"	20	19	13	150	130	1	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B >P238-239

14145A-150 (inch)		D <sub>1</sub> nm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pce.)	(V)
9/16(D20) 1,	/2"	20	25	13	150	200	1	*1

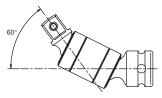
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B >P238-239
For Land Rover Prop Shaft

		D <sub>1</sub> (mm)	D₂ (mm)	L (mm)	₫¼ (g)	(pcs.)	(D)
13772-P	3/8"	22	19	75	120	5	*1
14772-P	1/2"	27	25	90	230	1	*2

\*1 C-Ring=1301C,Pin/O-Ring=1301A/B
\*2 C-Ring=1401C,Pin/O-Ring=1401A/B







14305M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
30		42	30	30	63	85	457	10	*2
32	1/2"	44.5	30	32	63	85	542	10	*2
36	ш	49.5	30	36	61	85	635	2	*2

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B -> P238-239



4101		T×W (mm)	D (mm)	L (mm)	₫∄ (g)	(pcs.)
1		2.7×18.6	22	40	59	10
2	1/2"	3.7×24	24	40	79	10
3	ш	3.7×30	30	40	128	10

	$\square$	T×W (mm)	D (mm)	L (mm)	₫₫ (g)	(pcs.)
6101	3/4"	6.4×33.5	35	50	205	10

# PLASTIC PROTECTOR PLASTIC 110



14145PM-110 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	Shaft Color	ДĨД (g)	(pcs.)	Ѿ
17		23.7	25.2	21		208	5	*1
19	1/2"	25.7	27.2	23		219	5	*1
21	1/2	27.5	29	25		226	5	*1
22		29	30.5	26		238	5	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B -> P23





#### PLASTIC PROTECTOR KUNSTSTOFF HÜLSE PROTECTION EN PLASTIQUE

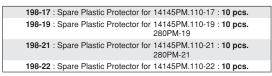
A detachable plastic protector is fi tted to the socket to prevent damage to the wheel when working in tight areas

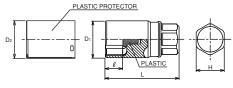
The socket size and Ko-ken mark printed on the shaft makes it easier to see if the socket is still rotating or stopped.

Zum Schutz empfi ndlicher Leichtmetallfelgen ist eine drehbare und abnehmbare Kunststoff Hülse an dem Steckschlüssel montiert. Die aufgedruckten Markierungen am Werkzeugschaft zeigen außerdem ob das Werkzeug steht oder rotiert.

La douille est pourvue d'un insert en plastique détachable. Il sert à prévenir tout dommage aux jantes lors de l'utilisation des douilles.

Le marquage sur la tige rend l'identifi cation des douilles très facile.





	280PM (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	H (mm)	Shaft Color	Д¯Д (g)	(pcs.)
New	19	25.7	27.2	13	52	19		150	5
New	21	27.5	29	13	55	21		180	5

Designed for Low Profile Wheel nut socket.

Detachable plastic protector is fitted to the adaptor to prevent damage to painted or surface treatment area on the wheel. The Plastic insert locate inside of the adaptor helps prevent damage to wheel nut.

Colour coded band make size identification easy.

Die abnehmbare Kunststoffhülse schützt die Felge vor Kratzern oder Schrammen an der empfindlichen Oberfläche. Der Kunststoffanschlag im inneren des Werkzeugs schützt zusätzlich die Radmutter

Die Farbmarkierung macht die Identifikation des Werkzeugs einfach.

La protection plastifiée amovible, protège la jante et évite des endommagements sur des surfaces délicates.

Le plastic inséré à l'intérieur de l'outil protège également l'écrou de roue. L'identification de l'outil est simplifiée par le marquage en couleur.





# 14201M 14145PM-110



Douilles pour écrous de roue Wheel Nut Sockets Set Radmuttern Steckschlüssel im Satz







#### **EXTRA THIN WALL EXTRA DÜNNWANDIG PAROIS EXTRA MINCES**

Special design for wheel nut work

- -110mm length gives socket extra reach for nuts recessed deep inside the wheel and ideal for Aluminum wheel nuts where access to nut is very tight.
  -Blue(17mm), Red(19mm), Yellow(21mm) and White(22mm) colour coded shafts make size
- identifi cation easy.
  -Plastic insert helps prevent damaged to wheel nut.

Speziell entwickelt für die Montage von Radmuttern

- Die Länge von 110mm erlaubt es mit diesem Steckschlüssel auch extra tiefe Radmuttern zu erreichen.
- Dieser Steckschlü ssel ist ideal für Radmuttern von Aluminiumfelgen, da gerade dort der Platz zwischen Schraube und Felge äußerst gering ist.
  - Durch die farbige Markierung; blau(17mm), Rot(19mm), Gelb(21mm) und Weiß(22mm)
- wird die Erkennung des passenden Werkzeugs erleichtert.
- Der Plastikanschlag schont die Radmutter vor Beschädigungen.

Douilles spécialement conçues pour les écrous de roue

- La longueur de 110mm permet d'atteindre les écrous enfoncés profondément.
- Idéales pour les écrous des jantes en aluminium où le passage est souvent étroit - Les corps de couleurs différentes facilitent l'identifi cation : bleu (17mm), rouge (19mm),
- jaune (21mm) et blanc (22mm)
- Les inserts en plastique évitent de détériorer les jantes.



Please note that thin walled design is only for wheel nut work and Torque rating

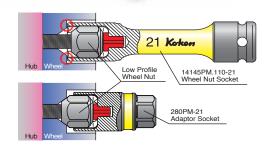
#### 280PM



Adaptor Socket for Low Profile Wheel Nut Adapter Steckschlüssel für kurze Radmuttern







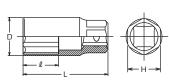
# 4300M (L60) (



Wheel Nut Sockets (Long) Radmuttern-Steckschlüssel, extra lang Douilles extra longues pour écrous de roue







23.6 25 60 21 98 10 17 1/2" 19 25.1 25 60 21 100 10 60 21 102 10 25



Wheel Nut Sockets

Please note that thin walled design is only for wheel nut work and Torque rating is limited.

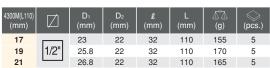
# 4300M (L110) (



Wheel Nut Sockets (Long) Radmuttern-Steckschlüssel, extra lang Douilles extra longues pour écrous de roue



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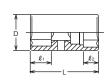
Please note that thin walled design is only for wheel nut work and Torque rating Please no is limited.

#### 14118M



Wheel Nut Sockets, Double Ended Radmuttern Steckschlüssel, doppelseitig Douilles pour écrous de roue á ouvertures doubles





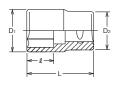
14118M (mm)		D (mm)	ℓ ₁ (mm)	ℓ <sub>2</sub> (mm)	L (mm)	₫Д (g)	(pcs.)
17×19		28	15.5	13	48	150	10
19×21	1/2"	31	17.5	13	57	177	10
19×22		31	17.5	15	57	187	10

#### **AL4400M**



Aluminium Sockets for Wheel Nuts Aluminium Steckschlüssel für Radmuttern Douilles en aluminium, pour écrous de roue





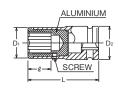
AL4400M (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	L (mm)	ДД (g)	(pcs.)
17	1/0"	29.5	27	21	43	52	10
19	1/2	31	29	24	45	58	10

#### AR14300



Impact Sockets with exchangeable Aluminium Inlets Impact Steckschlüssel mit auswechselbarem Aluminium Einsatz Douilles Impact avec cartouche en aluminium remplaçable





AR14300 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫Д (g)	(pcs.)	(1)
17		28	30	21	65	220	10	*1
19	1/2"	30	30	24	65	223	10	*1
21		33	30	25	65	237	10	*1

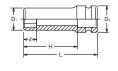
\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

# AN14300



Impact Sockets, Aluminium alloyed, for aluminium wheel nuts Aluminium-legierte Impact Steckschlüssel für Aluminium Radmuttern Douilles Impact en aluminium pour écrous de roue aluminium





AN14300 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	₫₫ (g)	(pcs.)	(1)
17		25.7	30	17	62	80	85	10	*1
19	1/2"	28.2	30	19	61	80	89	10	*1
21	ш	30.7	30	21	61	80	93	10	*1

<sup>\*1</sup> C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14113J (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
17		25.7	30	14	80	251	10	*1
19	1/2"	28.2	30	16	80	286	10	*1
21	ш	30.7	30	20	80	309	10	*1

14113M (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)	(D)
17		25.7	30	34	80	230	10	*1
19	1/2"	28.2	30	38	80	262	10	*1
21	ш	30.7	30	42	80	285	10	*1

<sup>\*1</sup> C-Ring=1402C, Pin/O-Ring=1402A/B P238-239

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B > P238-239

14124 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ ₁ (mm)	ℓ <sub>2</sub> (mm)	L (mm)	ДД (g)	(pcs.)
21×24.5 26×27.5	1/2"	28	29.5	24	25	65	157	10
26×27.5	1/2	31.5	35	24.5	24.5	65	197	10





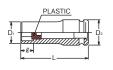
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

RS14124/7	7 Pieces Set/Rail 250mm	₫₫ (g)
	18, 18.5, 19, 21, 24.5, 26, 27.5	980

## 14113J



Impact Sockets with Plastic Stops for Hub Cap Screws Impact Steckschlüssel mit Plastik-Anschlag für Zier-Radmuttern Douilles Impact avec arrêt en plastique, pour écrous de roue décoratifs

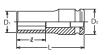




14113M



For Hub Cap Screws Für Zier-Radmuttern Pour écrous de roue décoratifs

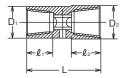




14124



Lock Nut Busters (Double Ended)
Felgenschloss-Knacker, doppelseitig
Douilles taraudées à ouvertures doubles pour
dévisser les écrous ou goujons de roue antivols.





14124/3



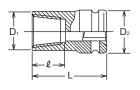
Lock Nut Busters (Double Ended) in Set Felgenschloss-Knacker, doppelseitig im Satz Jeu de douilles taraudées à ouvertures doubles pour dévisser les écrous ou goujons de roue antivols.



14124



Lock Nut Busters Felgenschloss-Knacker Douilles taraudées pour dévisser les écrous ou goujons de roue antivols.









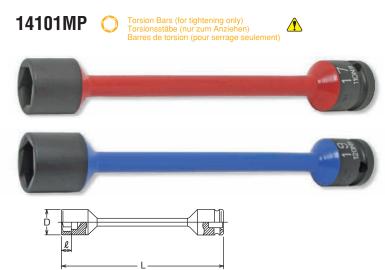
Socket Set on Rail Steckschlüsselsatz auf Schiene





14112-P (Nm)	D (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
90Nm	25	208	206	1	*1
95Nm	25	202	200	1	*1
100Nm	25	196	198	1	*1
110Nm	25	213	220	1	*1
120Nm	25	201	219	1	*1
130Nm	25	205	225	1	*1
140Nm	25	205	230	1	*1
150Nm	25	195	250	1	*1
170Nm	25	195	257	1	*1

<sup>\*1</sup> C-Ring=1401C, Pin/O-Ring=1401A/B > P238-239



14101MP (mm×Nm)	D (mm)	l (mm)	L (mm)	Shaft Color	(pcs.)	(D)
17× 95Nm	25.7	12	214	L t	10	*1
17×110Nm	25.7	12	204	i j	10	*1
17×120Nm	25.7	12	200	i i	10	*1
19× 90Nm	28.2	13	259		10	*1
19×100Nm	28.2	13	233	LL	10	*1
19×120Nm	28.2	13	203	ì	10	*1
19×140Nm	28.2	13	199	i i	10	*1
21×100Nm	30.7	14	214	i j	10	*1
21×120Nm	30.7	14	203		10	*1
22×150Nm	30.7	14	220	Ĺ	10	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B -> P238-239

As the torque could vary with the type and the condition of the impact wrench, we As the torque could vary with the type and the control strongly recommend the control with a torque wrench.

Da die Drehmomentwerte von Art und Leistung des verwendeten Schlagschraubers abhängen, empfehlen wir die Kontrolle der Kombination Schlagschrauber/ Torsionsstab mittels eines Drehmomentschlüssels.

Etant donné que le couple peut varier selon modèle, la capacité ou l'état de la clé à choc, le contrôle de la combinaison clé à choc/barre par clé dynamométrique est indispensable.









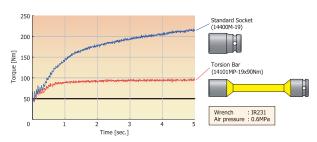
# 14101MP-M/8 HANGER **14101MP** Impact Torsion Bars 17×95Nm, 17×110Nm, 17×120Nm, 19×90Nm, 19×100Nm, 19×120Nm, 19×140Nm, 21×100Nm

- Designed for tightening wheel nuts with an impact wrench.
- Prevent the excessive torque road.
  Color coded shafts make size identification easy.

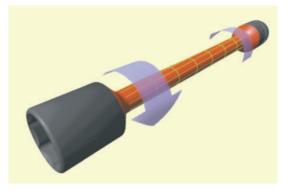
- Zur Montage von Radmuttern mit dem Schlagschrauber.
- Schützt die Radmutter vor zu hohen Anzugsmomenten.
- Die Farbmarkierung erleichtert das Erkennen des passenden Werkzeugs.

#### Barres de torsion

- Pour le montage d'écrous de roue avec visseuse à chocs.
- Protège l'écroue d'un serrage à couple excessif.
- La colorisation des barres facilite l'identification des tailles.



14101M (mm×Nm)		D (mm)	l (mm)	L (mm)	₫¼ (g)	(pce.)	(V)
14× 95Nm		22	11	208	230	1	*1
15×110Nm		23.2	11	201	230	1	*1
17× 60Nm		25.7	12	216	227	1	*1
17× 75Nm		25.7	12	228	240	1	*1
17× 95Nm		25.7	12	214	256	1	*1
17×110Nm		25.7	12	204	285	1	*1
17×120Nm		25.7	12	200	284	1	*1
19× 60Nm	1/2"	28.2	13	219	237	1	*1
19× 90Nm	1/2	28.2	13	259	275	1	*1
19×110Nm		28.2	13	214	278	1	*1
19×120Nm		28.2	13	203	297	1	*1
19×135Nm		28.2	13	206	339	1	*1
19×170Nm		28.2	13	190	332	1	*1
21×100Nm		30.7	14	214	288	1	*1
21×120Nm		30.7	14	203	288	1	*1
22×160Nm		32	15	209	385	1	*1



\*1 C-Ring=1401C, Pin/O-Ring=1401A/B



As the torque could vary with the type and the condition of the impact wrench, we strongly recommend the control with a torque wrench.

Da die Drehmomentwerte von Art und Leistung des verwendeten Schlagschraubers abhängen, empfehlen wir die Kontrolle der Kombination Schlagschrauber/ Torsionsstab mittels eines Drehmomentschlüssels.

Etant donné que le couple peut varier selon modèle, la capacité ou l'état de la clé à choc, le contrôle de la combinaison clé à choc/barre par clé dynamométrique est indispensable.

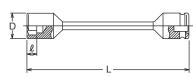
## 14101M (



Torsion Bars (for tightening only) Torsionsstäbe (nur zum Anziehen) Barres de torsion (pour serrage seulement)







#### How to use Torsion Bar:

- 1. Use with a 1/2" Sq. Dr. Pneumatic impact wrench.
- Set air pressure 0.6MPa, and set impact wrench dial Medium range.
- Chose a suitable Torsion bar according to wheel nut size and indicated tightening torque
   Attach the torsion bar to impact wrench and apply load.
- 5. Check the actual tightening torque value with torque wrench.
- 6. Adjust air pressure or torque value according to the results of check 5.
- 7. Tight other wheel nut in diagonal order.

#### Anwendung der Torsionsstäbe:

- Verwendung mit Druckluft-Schlagschraubern mit 1/2" Anschlussvierkant.
- 2. Stellen Sie den Druck auf 6 Bar ein, und wählen Sie die mittlere Einstellung am
- 3. Wählen Sie den passenden Torsionsstab (Kombination aus Schlüsselweite der Radschraube und Drehmoment) aus, und befestigen ihn am Gerät.
- Ziehen Sie nun die Radmutter an, bis sich der Torsionsstab nicht weiter dreht.
- 5. Überprüfen Sie das Anzugsmoment mit dem Drehmomentschlüssel
- 6. Passen Sie den Luftdruck bzw. die Einstellung am Schrauber dem Resultat der Drehmomentüberprüfung (Punkt 5.) an.
- 7. Ziehen Sie nun alle Radschrauben diagonal an.

#### Conseils d'utilisation:

- A utiliser avec une visseuse à chocs pneumatique en carré entraînant 1/2".
   Choisissez comme pression d'air 0.6HPa et ensuite la position moyenne de la visseuse.
- Prenez une barre de torsion correspondant à l'ouverture du 6-pans de la vis ainsi qu'au couple nécessaire.
- 4. Serrez la vis jusqu'à l'arrêt de la barre de torsion.
- 5. Contrôlez le couple avec une clé dynamométrique.
- 6. Ajustez pression et/ou couple selon le résultat du contrôle sous 5.
- 7. Serrez toutes les vis en diagonale.



16101M (mm×Nm)	$\square$	D (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
24×180Nm		38.8	24	235	850	1	*1
27×450Nm	3/4"	42.5	27	280	1236	1	*1
32×600Nm	3/4	48.8	32	280	1370	1	*1
33×600Nm		50	33	280	1370	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

As the torque could vary with the type and the condition of the impact wrench, we strongly recommend the control with a torque wrench.

Da die Drehmomentwerte von Art und Leistung des verwendeten Schlagschraubers abhängen, empfehlen wir die Kontrolle der Kombination Schlagschrauber/ Torsionsstab mittels eines Drehmomentschlüssels.

Etant donné que le couple peut varier selon modèle, la capacité ou l'état de la clé à choc, le contrôle de la combinaison clé à choc/barre par clé dynamométrique est indispensable.

18101M (mm×Nm)	$\square$	D (mm)	ل (mm)	L (mm)	₫Д (g)	(pce.)	W
24×350Nm		43.5	24	300	1380	1	*1
27×350Nm		47	27	300	1401	1	*1
27×450Nm		47	27	300	1579	1	*1
30×500Nm		51	30	300	1563	1	*1
32×450Nm		53.5	32	300	1600	1	*1
32×550Nm	1"	53.5	32	300	1602	1	*1
32×600Nm	ш	53.5	32	300	1602	1	*1
32×700Nm		51.5	32	300	1630	1	*1
33×550Nm		55	33	300	1638	1	*1
33×600Nm		55	33	300	1638	1	*1
36×600Nm		58.5	36	300	1718	1	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B -> P238-239

6102M-400 8102M-400 Extra long socket for wheel nuts Extra lange Steckschlüssel für Radmuttern Douilles extra-longues pour écrous de roue





6102M-400 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)
41W×21W		58	40	14	400	1880	1
32	3/4"	48.5	40	32	400	1480	1
33	ш	49.8	40	32	400	1500	1

8102M-400 (mm)		D <sub>1</sub> (mm)	D₂ (mm)	ل (mm)	L (mm)	₫Д (g)	(pce.)
41W×21W		58	49.9	14	400	2610	1
32	1"	48.5	49.9	32	400	2210	1
33		49.8	49.9	32	400	2220	1



6102M/8102M are for hand use only. Do not use with a poweror impact wrench.





Combination type. 41W×21W

Extra long Socket for wheel nut

# 16102M-270/-400 18102M-270/-400



Extra long Sockets for wheel Nuts Extra lange Steckschlüssel für Radmuttern Douilles extra-longues pour écrous de roue





16102M-270 (mm)	$\square$	D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	Ѿ
24		38.8	44	24	270	1034	1	*1
27		42.5	44	27	270	1088	1	*1
30	3/4"	46.3	44	30	270	1144	1	*1
32	3/4	48.8	44	32	270	1157	1	*1
33		50	44	32	270	1200	1	*1
36		53.8	44	32	270	1250	1	*1

<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

18102M-270 (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(1)
23		37.3	54	23	270	1627	1	*1
24		38.5	54	24	270	1628	1	*1
26		41	54	26	270	1667	1	*1
27		42.3	54	27	270	1680	1	*1
29		44.8	54	29	270	1680	1	*1
30	1"	46	54	30	270	1680	1	*1
32	ш	48.5	54	32	270	1680	1	*1
33		49.8	54	32	270	1700	1	*1
34		51	54	32	270	1750	1	*1
36		53.5	54	32	270	1750	1	*1
38		56	54	32	270	1822	1	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

16102M-400 (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫₫ (g)	(pce.)	(1)
24		38.8	44	24	400	1430	1	*1
27		42.5	44	27	400	1460	1	*1
30	3/4"	46.3	44	30	400	1510	1	*1
32	3/4	48.8	44	32	400	1530	1	*1
33		50	44	32	400	1530	1	*1
36		53.8	44	32	400	2180	1	*1

<sup>\*1</sup> C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

18102M-400 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pce.)	(I)
23		37.3	54	23	400	1865	1	*1
24		38.5	54	24	400	1869	1	*1
26		41	54	26	400	1925	1	*1
27		42.3	54	27	400	2272	1	*1
29		44.8	54	29	400	2278	1	*1
30	1"	46	54	30	400	2266	1	*1
32		48.5	54	32	400	2322	1	*1
33		49.8	54	32	400	2320	1	*1
34		51	54	32	400	2341	1	*1
36		53.5	54	32	400	2442	1	*1
38		56	54	32	400	2550	1	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

PW6 (mm×mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	(D)
32×17		47	44	12	75	633	2	*1
35×17		50	44	13	75	673	2	*1
38×20	3/4"	55	44	14	75	708	2	*1
41×19	3/4	58	44	14	80	840	2	*1
41×20		58	44	14	80	840	2	*1
41×21		58	44	14	80	831	2	*1

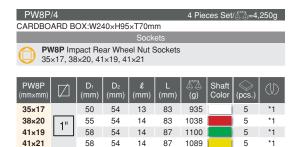
\*1 C-Ring=1600C, Pin/O-Ring=1601A/B -> P238-239

PW8 (mm×mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)	(D)
35×17		50	54	13	83	935	2	*1
38×20		55	54	14	83	1038	2	*1
41×19	1"	58	54	14	87	1100	2	*1
41×20	ш	58	54	14	87	1096	2	*1
41×21		58	54	14	87	1089	2	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B -> P238-239

SIZE	VEHICLE						
32 × 17	тоуота	(∼2t)					
35 × 17	NISSAN MITSUBISHI MAZDA ISUZU	(~3t) (~1t) (~2t) (~3.5t)					
38 × 20	MITSUBISHI	(2~3.5t)					

SIZE	VEHIC	CLE
41 × 19	MAZDA	$(3\sim4t)$
41 × 20	TOYOTA DAIHATSU HINO	(2t~) (2~3.5t) (2~3.5t)
41 × 21	NISSAN MITSUBISHI ISUZU HINO	(4t~) (2t~) (4t~) (4t~)



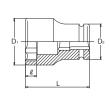
<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B

PW8L (mm×mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	(1)
41×21	1"	58	54	15	105	1263	1	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B -> P238-239





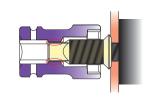




Tightening / Loosening Outer Nut

Inner Nut /

Tightening / Loosening Inner Nut



**PW8P/4** PW8P



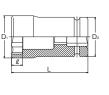
Socket set of Rear Wheel Nut Sockets Steckschlüssel für Hinterradmuttern, im Satz Jeu de douilles spéciales pour écrous de roué arrière



PW8L



Rear Wheel Nut Socket (long) Steckschlüssel für Hinterradmuttern, lang Douilles spéciales pour écrous de roué arrière longue





PW6 / PW8 🔘



Rear Wheel Nut Sockets Steckschlüssel für Hinterradmuttern Douilles spéciales pour écrous de roué arrière





PW6 (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pcs.)	ⅆ
17		40	44	19	53	433	5	*1
19	3/4"	40	44	19	53	419	5	*1
20	3/4	44	44	21	55	483	5	*1
21		44	44	23	57	491	5	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B -> P238-239

PW8 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	Д¯Д (g)	(pcs.)	(1)
17		40	54	19	60	621	2	*1
19	4"	43	54	19	60	648	2	*1
20		45	54	21	62	687	2	*1
21		45	54	23	64	696	2	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B -> P238-239

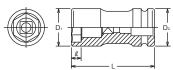
# 16316M / 16316A 18316M / 18316A



Rear Wheel Nut Sockets Steckschlüssel für Hinterradmuttern Douilles spéciales pour écrous de roué arrière







16316M (mm×mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	Д°Д (g)	(pce.)	(D)
35×17		52	44	10	90	865	1	*1
38×20	3/4"	56	44	13	100	952	1	*1
41×19	3/4	59	44	12	100	1037	1	*1
41×21		59	44	15	100	963	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B > P238-239

16316A (inch×inch)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫Д (g)	(pce.)	ℂⅅ
1.1/2×13/16	3/4"	56	44	13	100	940	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B -> P238-239

18316M (mm×mm)		D₁ (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	(D)
35×17		52	54	10	108	1153	1	*1
38×20	4"	56	54	13	108	1133	1	*1
41×19	<u> </u>	59	54	12	108	1200	1	*1
41×21		59	54	15	108	1155	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B -> P238-239

18316A (inchxinch)	Ø	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫Д (g)	(pce.)	(1)
1.1/2×13/16	1"	59	54	13	108	1120	1	*1

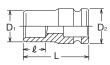
<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B > P238-239

# 16317M / 16317A 18317M / 18317A



Rear Wheel Nut Sockets Steckschlüssel für Hinterradmuttern Douilles spéciales pour écrous de roué arrière





16317M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
17		40	44	22.5	67	485	1	*1
19		40	44	22.5	67	462	1	*1
20	3/4"	44	44	22.5	67	517	1	*1
21	ш	44	44	22.5	67	489	1	*1
22		44	44	22.5	67	482	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B -> P238-239

16317A (inch)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	لا (mm)	L (mm)	₫∄ (g)	ළ (pce.)	(D)
13/16	3/4"	44	44	22.5	67	489	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B -> P238-239

18317M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pce.)	₩
17		40	54	22.5	72	682	1	*1
17.5		40	54	22.5	72	677	1	*1
19		43	54	22.5	72	705	1	*1
20	1"	45	54	22.5	72	723	1	*1
20.5	ш	45	54	22.5	72	723	1	*1
21		45	54	22.5	72	703	1	*1
22		45	54	22.5	72	696	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B -> P238-239

18317A (inch)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	₫∄ (g)	(pce.)	(D)
13/16	1"	45	54	22.5	72	703	1	*1

<sup>\*1</sup> C-Ring=1801C, Pin/O-Ring=1801A/B -> P238-239

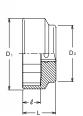


# 4400M (DU)



6 point Socket, extra short for Motorcycle central chain-wheel screws 6 kant Steckschlüssel, extra kurz für Motorrad Kettenrad-Zentralmuttern Douille 6-pans, extra-court, pour moto, pour roue d'entrâinement écrou-central





D<sub>1</sub> (mm 4400M (DU) 41 53 28 239 45 15 5 1/2" 279 46 59 48 15 28 5

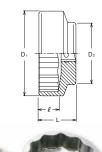


4405M (DU)



12 point Socket, extra short for motorcycle rear-axle screws 12 kant Steckschlüssel, extra kurz, für Motorrad-Hinterradmuttern Douille 12-pans, extra-court, pour moto, pour écrou roue-arriére







4405M (DU) D<sub>1</sub> (mm) D<sub>2</sub> ℓ L (mm) (g) (pcs.)

1/2" 47.3 41 15 28 200 5

71 52 16 31 410 5



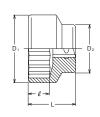


6405A (MV)



12 point Socket, extra short for motorcycle rear-axle screws 12 kant Steckschlüssel, extra kurz, für Motorrad-Hinterradmuttern Douille 12-pans, extra-court, pour moto, pour écrou roue-arriére







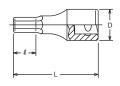


4012M-43



Inhex Sockets Steckschlüssel für Innensechskant-Schrauben Douilles tournevis pour vis 6-pans creux





4012M-43 (mm)	Ø	D (mm)	ل (mm)	L (mm)	₫¼ (g)	(pcs.)
20		26	11.5	43	130	10
21		26	11.5	43	140	10
22	1/2"	26	11.5	43	145	10
23	1/2	28	11.5	43	170	10
24		28	11.5	43	170	10
27		32	11.5	43	226	10



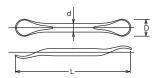
155	D (mm)	d (mm)	L (mm)	₫Д (g)	(pcs.)
	22	10	170	100	10

For Motor Cycles Für Motorräder









104ME (mm)	D (mm)	l (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	₫∄ (g)	(pce.)
6	9.5	8	200	180	150	1
7	11	9	200	180	152	1
8	12	10	250	200	183	1
9	14	12	250	200	188	1
10	14	13	250	200	230	1
11	16	14	250	200	234	1
12	18	15	250	200	355	1
13	18.5	17	250	250	390	1
14	20	18	250	250	399	1
15	21	19	250	250	404	1
16	22.5	21	250	250	419	1
17	24	22	250	250	568	1
18	25	23	250	250	577	1
19	26.5	25	250	250	594	1



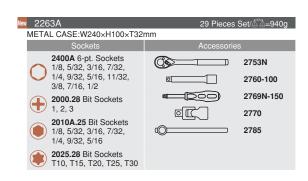
	157HE (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	₫Д (g)	(pce.)
	3	250	180	98	1
	4	250	180	121	1
	5	250	180	158	1
	6	250	180	416	1
	8	250	180	422	1
	10	300	190	440	1
New	12	320	210	660	1
	157PE (PH)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	Д <sup>™</sup> Д (g)	(pce.)
	2	250	180	95	1
	3	250	180	170	1
	157T (T)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	₫∄ (g)	(pce.)
	T25	250	180	95	1
	T27	250	180	96	1
	T30	250	180	167	1
	T40	250	180	168	1
	T45	250	180	213	1
	T50	250	180	215	1



2263A

1/4" Socket set (Inch) 1/4" Steckschlüsselsatz (Zoll) 1/4" Jeu de clés à douilles (Pouce)

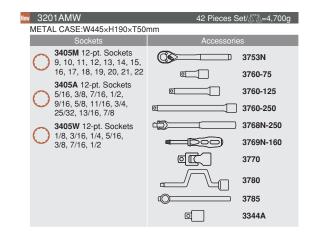




## 3201AMW

3/8" Socket set (mixed Metric,Inch,Witworth) 3/8" Steckschlüsselsatz (gemischt Metrisch,Zoll,) Jeu de douilles 3/8" (pouce et métrique)

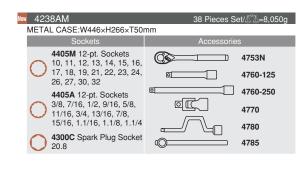




## 4238AM

1/2" Socket set (mixed Metric,Inch) 1/2" Steckschlüsselsatz (gemischt Metrisch,Zoll) Jeu de douilles 1/2" (pouce et métrique)

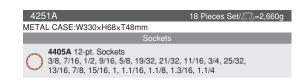




#### 4251A

1/2" Socket set (Inch) 1/2" Steckschlüsselsatz (Zoll) Jeu de douilles (pouce) 1/2

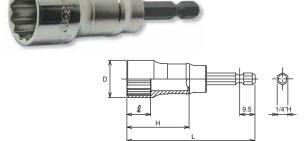




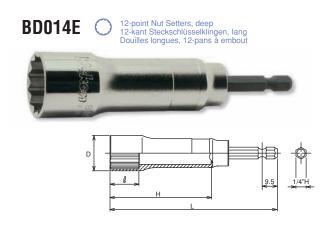
# TOOLS FOR CONSTRUCTION SITES WERKZEUGE FÜR DAS BAUGEWERBE OUTILLAGE POUR L'INDUSTRIE DU BÂTIMENT



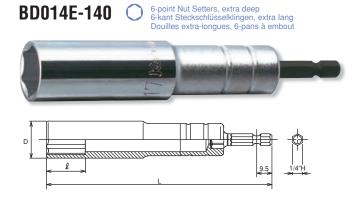
BD014SE 12-point Nut Setters
12-kant Steckschlüsselklingen
Douilles 12-pans à embout



BD014SE (mm)	D (mm)	l (mm)	H (mm)	L (mm)	₫¼ (g)	(pcs.)
8	12	12	36	77	35	10
10	14	12	36	77	38	10
12	16.5	14	36	77	48	10
13	17.5	14	36	77	51	10
14	19	14	36	77	54	10
17	22.5	14	36	77	76	10
19	24.5	14	36	77	83	10
21	27	14	34	77	104	10
22	28	14	34	77	120	10
24	30.3	14	34	77	140	10



BD014E (mm)	D (mm)	لا (mm)	H (mm)	L (mm)	₫∄ (g)	(pcs.)
8	12	12	63	104	45	10
10	14	12	63	104	52	10
12	16.5	18	63	104	61	10
13	17.5	18	63	104	65	10
14	19	18	63	104	72	10
17	22.5	18	60	104	80	10
19	24.5	18	60	104	95	10
21	27	18	60	104	110	10
22	28	18	60	104	112	10
24	30.3	18	60	104	123	10



BD014E-140 (mm)	D (mm)	ل (mm)	L (mm)	(g)	(pcs.)
13	19	20	140	120	10
17	24	26	140	190	10

	BD014XE (mm)	D (mm)	لا (mm)	H (mm)	L (mm)	Д¯Д (g)	// (pcs.)
New	8SF	13	12	49	90	40	10
New	10SF	15	12	49	90	46	10
New	12SF	17.5	14	48	90	54	10
New	13SF	18.5	14	48	90	58	10
New	14SF	19.8	14	47	90	64	10
New	17SF	23.5	14	46	90	81	10
New	19SF	25.5	14	46	90	100	10
New	21SF	28	14	46	90	123	10
New	24SF	31.5	14	45	90	137	10

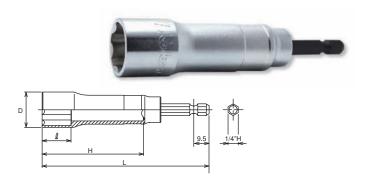
BD014E (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	⊕`∆ (g)	(pcs.)
New 17SF	23.5	18	60	104	94	10
New 19SF	25.5	18	60	104	100	10
New 21SF	28	18	60	104	110	10

BD008E-165 (mm)	D (mm)	لا (mm)	H (mm)	L (mm)	Д¯Д (g)	(pcs.)
17(12P)	22.5	17	110	165	105	10
19(12P)	24.5	17	110	165	135	10
21/12D)	27	17	110	165	1/12	10

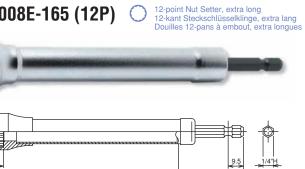
BD011SE (mm)	D (mm)	l (mm)	H (mm)	L (mm)	₫∄ (g)	⇒ (pcs.)
10	14	12	35	100	73	10
12	16.5	12	35	100	77	10
13	17.5	12	35	100	79	10
14	19	12	32	100	82	10
17	22.5	14	32	100	87	10
19	24.5	14	30	100	94	10
21	27	14	30	100	103	10
22	28	14	30	100	104	10



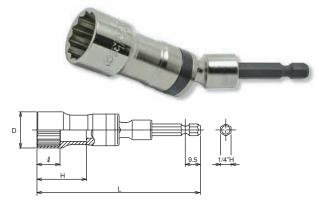
### Surface Drive Nut Setters, deep Surface Drive Steckschlüsselklingen, lang Douilles longues, Surface Drive BD014E-SF



# BD008E-165 (12P)





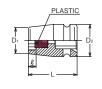


## **BD14400MJ**



6-point Sockets for Anchor Screws 6-kant Steckschlüssel Douilles 6-pans





BD14400MJ (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ل (mm)	L (mm)	₫∄ (g)	(pcs.)	(1)
13		20.7	25	5	38	140	10	*1
15		23.2	30	5	38	145	10	*2
16		24.5	30	6.5	38	145	10	*2
17	1/2"	25.7	30	6.5	38	145	10	*2
19		28.2	30	7.5	38	145	10	*2
21		30.7	30	9	38	185	10	*2
24		34.5	30	10.5	38	190	10	*2

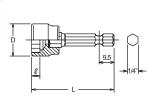
- \*1 C-Ring=1401C, Pin/O-Ring=1401A/B
- →P238-239 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## **BD016E** O



6-point Sockets for Anchor Screws 6-kant Steckschlüssel Douilles 6-pans





PLASTIC

BD016E (mm)	D (mm)	ل (mm)	L (mm)	Д¯Д (g)	(pcs.)
13	19.5	4	50	43	10
17	24.5	5	50	56	10
19	27	6	50	68	10

**● DIN 3126 Form E 6.3** 

## BD016JE



6-point Nut Setters with Plastic Stops 6-kant Steckschlüsselklingen mit Plastik-Anschlag Douilles 6-pans à embout avec arrêt en plastique

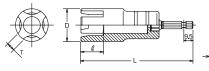


BD016JE (mm)	D (mm)	ℓ (mm)	L (mm)	₫¼ (g)	(pcs.)
13	19.5	5	60	66	10
17	24.5	6.5	60	80	10
19	27	7.5	60	90	10

**● DIN 3126 Form E 6.3** 







BD017E	D (mm)	T (mm)	لا (mm)	L (mm)	₫∄ (g)	(pcs.)
	31	7.3	21	104	158	10

#### DIN 3126 Form E 6.3



BD018		D (mm)	T (mm)	l (mm)	L (mm)	₫Д (g)	(pcs.)	W
	3/8"	31	7.3	21	45	113	10	*1

17.3

19.5

11

30

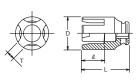
33

30

10

\*1 C-Ring=1302C, Pin/O-Ring=1401A/B > P238-239





3119



Wing Bolt Socket Steckschlüssel für Flügelschrauben Douilles pour ecrous à oreilles



3/8"

3 ×5 17

21

5.5×6

For Wing Bolt Für Flügelschrauben Pour ecrous à oreilles



For Drain Plug in Radiator

Für Kühler-Ablasschrauben Pour le vidange du radiateur

162E (mm)	D (mm)	L (mm)	(g)	(pcs.)
8	23	66	82	10
10	27.9	66	107	10

162E (inch)	D (mm)	L (mm)	₫Д (g)	(pcs.)
1/4	23	66	83	10
5/16	23	66	82	10
3/8	27.9	66	107	10
1/2	27.9	66	108	10

**● DIN 3126 Form E 6.3** 

162E O	Stud Setters Stehbolzeneindreher Monte-goujons
162E	
	9.5

BD004 (mm) 12.5×10 236 5 30 25 70 1/2" 12.5×13 38 30 75 388 3 12.5×16 38 30 75 369 3 20 ×19 90 775 48 44 3 752 20 ×22 44 3 3/4" 48 90 20 ×25 62 44 95 1184 2 95 1148 2 20 ×29 62 44

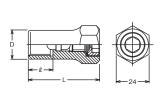






Stud Setters Stehbolzeneindreher Monte-goujons



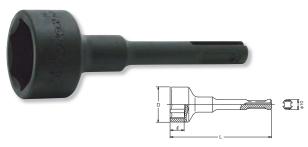


HA001	D (mm)	لا (mm)	L (mm)	₫Д (g)	(pcs.)
10(1.5)	15.5	13	47	90	10
12(1.25)	17.2	15	49	100	10
16(2.0)	21	18	52	125	10
20(2.5)	24.5	21	56	155	10
22(2.5)	26.5	27	61	175	10
24(3.0)	28	28	62	185	10
W3/8	14.8	13	47	90	10
W1/2	17.6	15	49	105	10



HA001 O





HA0 (mr		D (mm)	ل (mm)	L (mm)	Д¯Д (g)	(pcs.)
24	ļ	34.5	14	100	155	10
Socket	Socket for HA001					

# BD022-120P



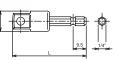


BD022-120P	Ø	L (mm)		(pcs.)
3/8	3/8"	120	100	10
1/2	1/2"	120	160	10

# BD023E







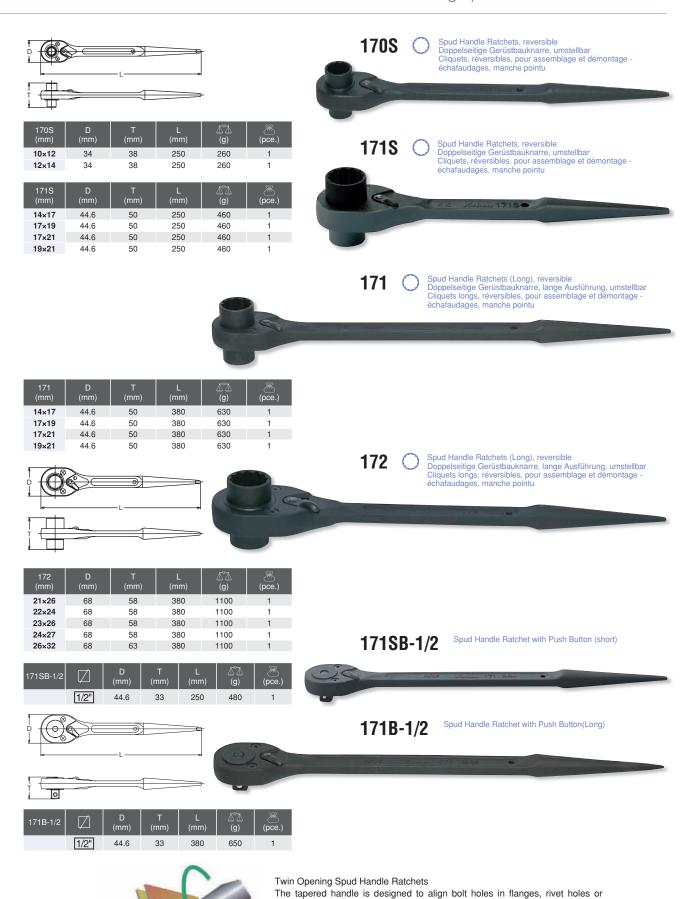
BD023E		D (mm)	L (mm)	₫∄ (g)	(pcs.)
3/8	3/8"	12.5	55	27	10
1/2	1/2"	16.5	60	48	10







BD024E	$\square$	D (mm)	L (mm)	Д¯Д (g)	∭ (pcs.)
3/8	3/8"	19.3	78	63	10
1/2	1/2"	19.3	82	73	10



similar assemblies.

Knarren mit doppelseitiger Steckschlüssel-Kombination und konischem Griff für

Cliquets à tête double avec manche conique pour aligner les trous des boulons

die Ausrichtung von Bohrlöchern z. B. an Flanschen und Gerüsten.

lors des travaux d'échafaudage ou de tout travail de construction.



# SPARE PART SETS ERSATZTEILSÄTZE PIECES DE RECHANGE



### 2749RK



#### 2752RK



**2753RK** 2753P, 2753P, 2753P, 2753P-160, 2753J, 2774PS, 2774JS, 2774P, 2774J



2753BRK 2753NB, 2753PB, 2753JB



2725RK 2725Z, 2726Z



**2749RK-3/8** 27749PS-3/8, 27749P-3/8 2774PS-3/8, 2774JS-3/8



3749RK 3749S



#### 3749BRK 3749SB



**3752RK** 3752N, 3752J, 3757, 3776N, 3776P, 3776J



**3753RK** 3753SM, 3753N, 3753P, 3753P-250, 3753J, 3774PS, 3774P-SR D3753J, 3774N, 3774P, 3774JJ, 3774NL, 3774PL, 3774JL



**3753BRK** 3753SMB, 3753NB, 3753PB, 3753JB 3774NB, 3774PB, 3774JBL



**3725RK** 3725Z, 3725ZS, 3726Z, 3726ZS



 $168T\text{-}6IP(40) \ \ \text{TORXPlus}^{\$} \ \text{6IP Screwdriver for 2725RK} \\ 168T\text{-}8IP(40) \ \ \text{TORXPlus}^{\$} \ \text{8IP Screwdriver for 3725RK} \\$ 



	[ <del>/</del> 1	<b>&amp;</b> Z	<b>*</b>
	Ш	(g)	(pce.)
2749RK		30	1
2752RK		42	1
2753RK	1/4"	30	1
2753BRK		31	1
2725RK		30	1
2749RK-3/8		45	1
3749RK		70	1
3749BRK		84	1
3752RK	3/8"	84	1
3753RK	ш	76	1
3753BRK		77	1
3725RK		50	1
168T-6IP(40)	_	20	1
168T-8IP(40)	_	20	1

#### 3749SRK-1/2 3749S-1/2



3749SBRK-1/2 3749SB-1/2



4749RK 4749N-380, 4749J-380



**4750RK** 4750N, 4750P, 4750J



**4750BRK** 4750NB, 4750PB, 4750JB



		(g)	(pce.)
3749SRK-1/2		120	1
3749SBRK-1/2		120	1
4749RK		130	1
4750RK		130	1
4750BRK	1/2"	130	1
4752RK	ш	140	1
4753RK		130	1
4753BRK		130	1
4725RK		130	1
6749RK	3/4"	580	1
6752RK	3/4	600	1
8749RK	1"	800	1

#### 4752RK 4752N, 4752J



**4753RK** 4753N, 4753P, 4753P-410, 4753J, D4753J 4774N, 4774P, 4774P-450, 4774J



**4753BRK** 4753NB, 4753PB, 4753JB 4774NB, 4774PB, 4774JB



4725RK 4725Z



**6749RK** 6749, 6749-1000



6752RK 6752





# 2755RK 2755





#### 3755RK 3755



#### 4755RK 4755



#### 6755RK 6755



	Ø	₫ <u>¯</u> (g)	(pce.)
2755RK	1/4"	40	1
3755RK	3/8"	98	1
4755RK	1/2"	137	1
6755RK	3/4"	550	1

#### **2768RK** 2768P, 2768J



#### **3768RK** 3768P, 3768J 3768ZRK 3768Z



#### **4768RK** 4768P, 4768J, 4781N-450 4768ZRK 4768Z



#### 6768RK 6768



#### 8768RK 8768



		$\square$	₫Д (g)	(pce.)
	2768RK	1/4"	9	1
	3768RK	3/8"	21	1
	3768ZRK	3/8"	21	1
	4768RK	1/2"	60	1
New	4768ZRK	1/2"	60	1
	6768RK	3/4"	200	1
	8768RK	1"	475	1

### 3112RK 3112G



	Ø	(pce.)
3112RK	3/8"	1
4112RK	1/2"	1
6112RK	3/4"	1

4100MRK (mm)		(pce.)
6		1
7		1
8		1
9		1
10	1/2"	1
10.5	1/2	1
11		1
12		1
14		1
16		1

4100ARK (inch)	Ø	(pce.)
1/4		1
5/16		1
3/8		1
7/16	1/2"	1
1/2		1
9/16		1
5/8		1

6100MRK (mm)	Ø	(pce.)
18		1
20		1
22		1
24	3/4"	1
27	3/4	1
28		1
29		1
30		1

162RK	(pce.)
5/16	1
3/8	1
1/2	1
10	1

### **4112RK** 4112N, 4112G



#### 6112RK 6112



## 4100MRK 4100ARK

4100M/4100A

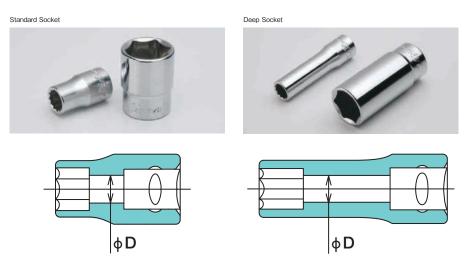


# **6100MRK** 6100M

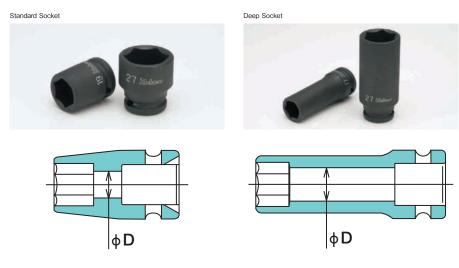


# 162RK





		1/4	"O	3/8	<u>"O</u>	1/2	"O	3/4	1" <b>O</b>			
SOC	CKET	Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep	Standard		
(	)	2400M 2400A	2300M 2300A	3400M 3400A	3300M 3300A	4400M 4400A	4300M 4300A	6400M 6400A	6300M 6300A	8400M 8400A		
	)	2405M 2405A	2305M 2305A	3405M 3405A	3305M 3305A	4405M 4405A	4305M 4305A	6405M 6405A	6305M 6305A	8405M 8405A		
(mm)	(inch)	0.5	0.5			φD				ı		
3	1/8	2.5 3.5	2.5 3.5									
4.5		4	4									
5	3/16	4	4.5									
5.5	7/32	4.5	5	4.5	5							
6	1/4	5	5	5	5							
7	9/32	5.5	6	5.5	6							
8	5/16	6	7	6	7	6	7					
9	11/32	7	8	7	8	7	8					
10	3/8	8	9	8	9	8	9					
11	7/16	9	10	9	10	9	10					
12 13	1/2	10 11	11 12	10	11 12	10 11	11 12					
13	9/16	11	12	11 12	13	11	13					
15	19/32	12	10	13	14	13	14					
16	5/8			14	15	14	15					
17	21/32			15	16	15	16	15	16			
18	11/16			15	17	15	17	15	17			
19	3/4			16	18	16	18	16	18			
20	25/32			17	19	17	19	17	19			
21	13/16			18	20	18	20	18	20			
22	7/8			19	21	19	21	19	21			
23				20	22	20	22	20	22			
24	15/16			21	23	21	23	21	23			
25 26	1					22 23	24 25	22	24 25			
27	1- 1/16					23	26	23	26	23		
28	1- 1/10					24	27	24	27	24		
29	1- 1/8					24	28	24	28	24		
30	1- 3/16					25	29	25	29	25		
31						26	30	26	30	26		
32	1- 1/4					27	31	27	31	27		
33	1- 5/16							28	32	28		
34								29	33	29		
35	1- 3/8							30	34	30		
36	4 7/40							31	35	31		
37	1- 7/16							31 32	36	31 32		
38	1- 1/2							32	37 38	32		
40	1- 9/16							32	38	33		
41	1- 5/8							34	40	34		
42	-,-							34	41	34		
43	1-11/16							35	42	35		
44	1- 3/4							36	43	36		
45								36	44	36		
46	1-13/16							37	45	37		
47								38	46	38		
48	1- 7/8							38	47	38		
	1-15/16							39	48	39		
50	2							40	49	40		
	2- 1/16							40				



SOCKET		1/4"〇	3/8	"O	1/2	"O	3/4	"O	1" <b>O</b>				
500	KEI	Standard	Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep			
	$\overline{}$	12400M 12400A	13400M 13400A	13300M 13300A	14400M 14400A	14300M 14300A	16400M 16400A	16300M 16300A	18400M 18400A	18300M 18300A			
(mm)	(inch)					φD							
4		3											
4.5	3/16	3											
5		4											
5.5		4											
6	1/4	5	5	5									
7	9/32	5	5	6									
8	5/16	6	6	7	6	7							
9	11/32	7	7	8	7	8							
10	3/8	8	8	9	8	9							
11	7/16	9	9	10	9	10							
13	1/2	10 11	10 11	11 12	10 11	11 12							
14	9/16	12	12	13	12	13							
15	3/10	12	13	14	13	14							
16	5/8		14	15	14	15							
17	11/16		14	16	14	16	14	16					
18	11/10		15	17	15	17	15	17					
19	3/4		16	18	16	18	16	18	16	18			
20			17	19	17	19	17	19	17	19			
21	13/16		18	20	18	20	18	20	18	20			
22	7/8		19	21	19	21	19	21	19	21			
23			20		20	22	20	22	20	22			
24	15/16				21	23	21	23	21	23			
25	1				22	24	22	24	22	24			
26					23	25	23	25	23	25			
27	1- 1/16				23	26	23	26	23	26			
28					24	27	24	27	24	27			
29	1- 1/8				25	28	25	28	25	28			
30	1- 3/16				26	29	26	29	26	29			
31	1 1/4				27	30	27	30	27	30 31			
32	1- 1/4				28	31	28 29	31 32	28 29	32			
34	1- 5/16						30	33	30	33			
35	1- 3/10						31	33	31	34			
36	1- 0/0						32	35	32	35			
37	1- 7/16						32	36	32	36			
38	1- 1/2			1		1	34	37	34	37			
40	1- 9/16						34	39	34	39			
41	1- 5/8						35	40	35	40			
42	1-11/16						35	41	35	41			
45	1- 3/4						35	44	35	44			
46	1-13/16						40	45	40	45			
47							40	46					
	1- 7/8						40	47					

# **Equivalent Standard Bolt Diameters**

of German, American, British, Norwegian, French, and Swedish sizes for Wrenches



		-																											$\underline{}$	_		
Soc		Metric sizes SW Thread diameters													American sizes Thread diameters										_	lish si	zes					
Oper	ning	SW	10	0	ı		Ihr	ead		ers											TI	hrea	ad d	iame	eters					Thread	d Diam	
		m m	IS R2 19	72- 68	Germar	n Sta	anda	ard	French Standard	Swed	lish S	tanda	ırds		IS R272-	O -1962														W	BS	
=	5	n H	13	00	me	tric								JC.				Non	nal	Hea	avy		Nuts		B.	alte :	and Screw		Nuts			5
uo l	ion	nominal size of wrench	ا ا		IIIe	TIIC		17	33					of Wrench				Seri	ies	Ser	ies		ivuta	_		JILO (	and Screw	· · · ·			BS 916, 1953 and BS 1083, 1968, 1965	Width across flats inch
minimum dimension	maximum dimension	JE W	standard hexagon	ر			2	Danish Stand DS	NFE 27-111-19303			ge .	=	of V															Screw	ag.	anc 8, 1	flats
l ä	dim	ze c	exe	small hexagon	6	64	DIN6914+6915	and	1-1	Φ	፟ .	large	Whitworth small SMS 1415	Size			AVF										_	Set Screws Square	တ္တ	Whitworth Large	953 196	SS
Ē	Ē	al Si	rd h	exe		1+5	441	St	7-11	larg 412	8m8 414	13 413	orth 415	<u>a</u>								<u>a</u>	ī.	>	la l	>	ws	Scre	nine	뒫	33, 18	acro
ië	Ē	nin	nda	all h	DIN2)	DIN561+564	69	hsir	= 27	rric I	ric S	S 1.	S 1.	Nominal	Bolts	Nuts	Actual	Bolts	Nuts	Bolts	Nuts	Norma	Square	Heavy	Normal	Heavy	Machine Screws	et S	Machine	itwo	916	£
Ë	max	non	staı	sms			$\leq$	Dar	E N	Metric large SMS 1412	Metric small SMS 1414	W W	Wh SM	Š	Δ.	Z		<u> </u>	z	m	z	a	b	НС	Z d	E e	≥ ഗ f	g	≥Z h	×	BS	Wic
2.52	2.58	2.5			1			П									П	$\neg$				-				-		3				
3.02	3.08	3			1.2+1.4																											
3.22	3.28	3.2	1.6		1.6	-								1/8	No2		Н	_									No2+3					
3.52	3.60	3.5			1.7									170	1402		П										140210					
4.01	4.14													5/32		No0+1		$\Box$											No0+1			
4.02 4.52	4.12 4.62		2		2.3	-			2.5		2.3																					
4.83	4.95	7.0			2.0						2.0			3/16	No3.4+5	No2+3	19										No4+5	No10	No2+3			
5.02	5.12	5	2.5		2.5+2.6				3		3																					
5.21 5.52	5.33	5.5	3		3									13/64				-		_												
5.59	5.72	5.5	-											7/32														No12				
6.00	6.13													15/64																		
6.03	6.15	6			3.5	-		$\vdash$	3.5	3	3.5			1/4	No6+8	No4	25	-		$\dashv$			$\vdash$			Н	No6+8	1/4	No4	_		-
6.60	6.70					L																								1/16		.256
6.82	6.97	-	_		_	$\vdash$		$\vdash$	4:45	0.5	A			17/64			П		$\exists$				$\Box$									
7.03	7.15 7.32	7	4		4	$\vdash$	-	$\vdash$	4+4.5	3.5	4		-	9/32			$\vdash$	$\dashv$		-		$\vdash$	$\vdash$		No10	$\vdash$				_		_
7.60	7.70					L												$\exists$												3/32		.297
7.62	7.77													19/64	Ned0:40	No.F : C	0.1	7									Net0:10	FHA	No.5 : 0			
8.03	8.18 8.15	8	5		5	6		$\vdash$	5	4	5			5/16	No10+12	N05+6	31	-	$\dashv$				$\vdash$			H	No10+12	5/16	No5+6			
8.41	8.56									-	Ľ			21/64																		
8.70	8.80													11/00		Nan	24	$\exists$	$\exists$										Nac	1/8	3/16	.340
9.03	8.97 9.15	9			6	-			5.5	5				11/32		No8	34	-											No8			
9.60	9.75	Ü							0.0					3/8		No10	38								<b></b>		1/4	3/8	No10			
10.04	10.19	10	6		6	8			6		6																					
10.39	10.55	11	7		7			1/4		6	7		1/4	13/32				-		_												
11.18	11.33		<u> </u>		,			17.7			<u>'</u>		17-7	7/16	1/4	No12.1/4	44	1/4	1/4			1/4	1/4		1/4			7/16	No12.1/4			
11.38	11.45													15/00																3/16	1/4	.445
11.99 12.04	12.14 12.24	12		8		$\vdash$		$\vdash$	7		8			15/32				$\dashv$		-				_								
12.80	12.95	12		-		$\vdash$								1/2	5/16	5/16	50	5/16	5/16	$\neg$	1/4	5/16		1/4	5/16		5/16	1/2				
13.04	13.24	13	8		8	10						1/4	5/16																		5/10	
13.44	13.54													17/32				_		_										1/4	5/16	.525
14.05	14.27	14		10	8°)			5/16	8	8				17702			П															
14.38	14.55											5/10	0.10	9/16	3/8	3/8	56	3/8	3/8		5/16	3/8	5/16	5/16	3/8		3/8	9/16	5/16			
15.05 15.18	15.27 15.36	15			10°)	-					10	5/16	3/8	19/32																		
15.16	15.44													19/32																5/16	3/8	.600
15.98	16.15													5/8	7/16		62	7/16					3/8		7/16			5/8	3/8			
16.05 16.77	16.27 16.95	16	Spa	ark j	plug M10	0x1.	<u> </u>		9					21/32			$\vdash$	$\dashv$		$\dashv$				_								_
		17	10	12	10	12		3/8	10	10				LIIOL																		
17.58				_								0.10	7/10	11/16		7/16	69	_	7/16		3/8	7/16		3/8								_
18.05		18	Sp	ark	plug M1	2x1.	25				12	3/8	7/16																	3/8	7/16	.710
19.06		19	12	14	12	16		7/16	11																					0/0	7710	.,, 10
19.18			$\vdash$			$\vdash$		$\vdash$						3/4	1/2	1/2	75	1/2	1/2		7/16	1/2	7/16	7/16	1/2			3/4				<u> </u>
19.97 20.06		20	$\vdash$			$\vdash$	$\vdash$	$\vdash$						25/32			H	$\dashv$		$\dashv$		$\vdash$	$\vdash$			Н						
20.78	20.98													13/16	9/16		81	9/16					1/2		9/16							
20.86		20.8	Sp	ark	plug M1	4x1.	25	$\vdash$					-				$\vdash$	_		4			$\vdash$			$\vdash$				7/10	1/0	000
21.06		21	$\vdash$					Н	12		14	7/16	1/2		<del>                                     </del>		$\vdash$	$\dashv$		-						$\vdash$				1/10	1/2	.820
22.06	22.36		14	16	14		12	1/2		12+14	Ė																					
22.35		ာ				$\vdash$	-	$\vdash$	14			1/0	_	7/8		9/16	88	- !	9/16	1/2	1/2	9/16	9/16	1/2	_	$\vdash$		7/8		-		-
23.06 23.52		23				$\vdash$		$\vdash$	14			1/2					$\vdash$	$\dashv$		$\dashv$			$\vdash$			$\vdash$				1/2	9/16	.920
23.98	24.21	_												15/16	5/8	5/8	94	5/8	5/8			5/8		9/16	5/8							
24.06		24	16	18	16	20		$\vdash$			16		5/8	21/00			$\vdash$	_		4			$\vdash$									
24.76 25.06		25				$\vdash$		$\vdash$						31/32			$\vdash$	$\dashv$		$\dashv$						Н						
25.55	25.78													1			100						5/8					1				
25.81		200	0-	24	nlua Ma	04											$\vdash$	_	_	4		L	$\vdash$							9/16	5/8	1.010
26.08					plug M1 18	οx1.		5/8		16	18						$\vdash$	$\dashv$		$\dashv$		$\vdash$	$\vdash$		_	Н					_	<del>                                     </del>
27.13	27.36				.5			5.0						1 1/16			106			5/8	5/8			5/8								
28.12		00						$\Box$				E IO	0/4				$\Box$		_	_										5/8	11/16	1.100
28.08		28				$\vdash$		$\vdash$				3/8	3/4	1 1/8	3/4	3/4	112	3/4	3/4	$\dashv$		3/4	3/4		3/4	Н		1 1/8				
29.08	29.48	29							18					,,	5. 1	5, 1						5.7	2.7									
30.08		30	20	22	20	24					20			1 0/10			H	4	_													
30.34			$\vdash$			1		$\vdash$						1 3/16			$\vdash$	$\dashv$		$\dashv$			$\vdash$			Н				11/16	3/4	1.200
31.93	32.18													1 1/4			125			3/4	3/4			3/4				1 1/4			3, 7	00
32.08	32.48		22	24	22		20	3/4	20	18+20	22	0/-	710				П	_	$\Box$													
33.08 33.22		33				$\vdash$		$\vdash$				3/4	7/8				$\vdash$	+		$\dashv$			$\vdash$			$\vdash$				3/4	7/8	1.300
33.53	33.81													1 5/16	7/8	7/8	131	7/8	7/8			7/8	7/8		7/8					5, 7		
34.08	34.48										24						П	$\Box$														
35.10 35.13		35				-		$\vdash$	22					1 3/8	-		$\vdash$	-		$\dashv$			$\vdash$			Н		1 3/8		_		-
35.51	35.71					L								. 3/0														. 5/6		13/16	15/16	1.390
36.10	36.60	36	24	27	24	30	22	7/8		22+24																						

#### **Equivalent Standard Bolt Diameters**

of German, American, British, Norwegian, French, and Swedish sizes for Wrenches



Soc	ket	Metric sizes																				Ameri	can si	zes						Eng	lish siz	zes
Ope		SW						Threac						Thread diameters											Thread	d Diam						
		E	R2 19	72- 68	Ger	mar	Sta	ndard	French Standard	Sw	edish	Stand	lards	_		O -1962														W	BS	
Ē	2)	n dor	13		r	netri	ic							ench					mal ries	He			Nuts		Bolt	s and	Screv	ws	Nuts		r2	ch
minimum dimension 1)	maximum dimension	nominal size of wrench	agon	١			2	DS 17	NFE 27-111-19303)			Эе	a =	Nominal Size of Wrench				36	1162	361	162								Screw	eb.	BS 916, 1953 and BS 1083, 1968, 1965	Width across flats inch
dime	dim d	size c	standard hexagon	small hexagon	2)	564	DIN6914+6915	Danish Stand DS	111-1	ge 2	lall 4	h large 3	Whitworth small SMS 1415	Size			AVF										Φ.,	Set Screws Square	e Sci	Whitworth Large	1953	ross 1
mn m	imun	inal	dard	∥ he	2)	DIN561+564	5914	s Hsi	27	Metric large SMS 1412	Metric small SMS 1414	Whitworth I SMS 1413	twort 3 141	ninal	Bolts	Nuts	Actual,	Bolts	Nuts	Bolts	Nuts	® Normal	Square	Heavy	o Normal	Heavy	Machine Screws	et Sci quare	Machine Nuts	wort	916,	th ac
mini	max	nom	stan	sma	DIN:	Ž O	ΔN	Dan	NFE	Metr	Metr	Whit	Whit	Nor	M	ž	¥	M	ž	M	ž	ă	b S	T C	ž d	Ť e	≅ŏ f	l α g	≅ź h	Whi	BS 8	Widt
36.73 37.10	37.01 37.60	37										7/8	1	1 7/16			144			7/8	7/8			7/8		7/8						
37.82	38.05								0.4			110																		7/8	1	1.480
38.10 38.30	38.60 38.61	38							24					1 1/2	1	1	150	1	1			1	1		1			1 1/2				
39.89 40.36	40.20 40.59													1 9/16																15/16	1 1/16	1.580
41.10 41.50	41.60 41.81	41	27	30	27		24	1		27				1 5/8			162			1	1			1		1						
42.10 42.67	42.60 42.93	42							27			1	1 1/8																	1	1 1/8	1 670
43.08	43.38														1 1/8	1 1/8	169	1 1/8	1 1/8			1 1/8	1 1/8		1 1/8						1 1/0	1.070
44.70 46.10	45.03 46.60	46	30	33	30	36	27	1 1/8	30	30				1 3/4																		
46.28 47.10	46.61 47.60	47										1 1/8	1 1/4	1 13/16			181			1 1/8	1 1/8			1 1/8		1 1/8						
47.52 47.88	47.80 48.21													1 7/8	1 1/4	1 1/4	188	1 1/4	1 1/4			1 1/4	1 1/4		1 1/4					1 1/8	1 1/4	1.860
50.10	50.60 51.44	50	33	36	33			1 1/4	33	33				2			200			1 1/4	1 1/4			1 1/4		1 1/4						
52.10	52.60	52										1 1/4	1 3/8				200			1 1/4	1 1/4			1 1/4		1 1/4					1.00	0.050
52.37 52.68	52.68 53.04													2 1/16	1 3/8	1 3/8	206	1 3/8	1 3/8			1 3/8	1 3/8		1 3/8					1 1/4	1 3/8	2.050
54.12 54.25	54.72 54.61	54							36					2 1/8																		
55.12 55.88	55.72 56.26	55	36	39	36	42		1 3/8		36				2 3/16			219			1 3/8	1 3/8			1 3/8		1 3/8						
56.12 56.72	56.72 57.05	56										1 3/8	1 1/2	2 0/10						. 0.0	. 0.0			. 0.0		. 0.0				1 2/0	1 1/2	2 220
57.45	57.84													2 1/4	1 1/2	1 1/2	225	1 1/2	1 1/2			1 1/2	1 1/2		1 1/2					1 3/0	1 1/2	2.220
58.12 60.12	58.72 60.72		39		39			1 1/2	39	39		1 1/2	1 5/8																			
60.66	61.06 61.92													2 3/8			238			1 1/2	1 1/2			1 1/2		1 1/2				1 1/2	1 5/8	2.410
62.23 63.12	62.64 63.72	63							42					2 7/16												1 5/8						
63.83	64.24 65.72		40		40	48		1 3/8	72	42		1 5/8	1 2/4	2 1/2																		
65.43	65.86	03	42		42	40		1 3/0		42		1 3/6	1 3/4	2 9/16			256							1 5/8		1 5/8						
65.91 67.03	66.29 67.46													2 5/8	1 3/4	1 3/4	262	1 3/4	1 3/4						1 3/4					1 5/8	1 3/4	2.580
67.12 70.12	67.72 70.72		45		45			1 3/4	45	45		1 3/4	1 7/8																			
70.26 70.51	70.69 70.92													2 3/4			275			1 3/4	1 3/4			1 3/4		1 3/4				1 3/4	2	2.760
71.12	71.72	71							48					0.40/40											4 7/0					1 0/1		2.700
71.81 75.03	72.26 75.51		-					. 7/0				. 7/0		2 13/16 2 15/16			294							1 7/8	1 7/8	1 7/8						
76.61			48		48	56		1 7/8		48		1 7/8	2	3	2	2	300	2	2						2							
77.15 79.81	77.85 80.31								52					3 1/8			312			2	2			2		2						
80.15 80.47	80.85 80.92	80	52		52			2	52		2																			2	2 1/4	3 150
82.15	82.85		EG		56			2 1/4	56																							0.100
86.18			30		30			2 1/4						3 3/8											2 1/4							
	89.92								60					3 1/2										2 1/4		2 1/4						
	90.85 91.00	90	60		60																										2 1/2	3.550
94.15	94.85 95.85		64		64			2 1/2	64																							
95.76	96.34	00	- 54		υ <del>τ</del>			- 1/2						3 3/4										0 4/0	2 1/2	0 4/0						
99.20	99.52 99.60													3 7/8										2 1/2		2 1/2					2 3/4	3.890
100.15 105.20	100.85 106.00				68 72	L	H	2 3/4	68 72																							
105.33 106.60	105.67													4 1/8										2 3/4							3	4.180
108.51	109.14		06		76			3	76					4 1/4										2 3/4								
114.91	115.57							-	70					4 1/2											3							
115.20 116.20	117.00				80				80																							
118.08 120.20		120	85		85			3 1/4						4 5/8										3		3					$\exists$	
	ıx-min,					netri	c siz		ording	to DIN	N 475/	2, seri	ies 1				a) He	ex Flat	and H	Hex F	lat Ja	ım Nut	s		d)	Squar	e Bol	ts				

1) max-min, dimensions for metric sizes according to DIN 475/2, series 1
2) DIN 439, 555, 601, 609, 610, 917, 931, 933, 934, 935, 936, 937, 960, 961, 979, 980, 985, 986, 1587, 2510/5, 6330, 6331, 7513, 7964, 7967, 7968, 7976, 7990
3) NFE 27-311 is identical to ISO R 272 since Oct.1969
4) Standards prior to 1966
5) Only applicable to Motor industry(M 10 acc.to DIN 70 613 through 70 618)
6) Standards prior to 1963

a) Hex Flat and Hex Flat Jam Nuts
Hex Nuts and Hex Jam Nuts
Hex Slotted Nuts
Hex Thick Nuts
Hex Thick Slotted Nuts
Hex Castle Nuts
b) Square Nuts
c) Heavy Square Nuts
Heavy Hex Flat Nuts
Heavy Hex Flat Jam Nuts
Heavy Hex Nuts
Heavy Hex Jam Nuts
Heavy Hex Jam Nuts
Heavy Hex Jam Nuts
Heavy Hex Jam Nuts ANSI B 18.2.2-1972

d) Square Bolts
Hex Bolts
Hex Cap Screws
Lag Screws
e) Heavy Hex Bolts
Heavy Hex Structual Bolts
Heavy Hex Screws

ANSI B 18.2.1-1972

f) ANSI B 18.6.3-1962 g) ANSI B 18.6.2-1956 h) ANSI B 18.6.3-1962

\* Square Bolt and Lag Screw only



ion	Hexa	gon Head	d Bolt	Hexago C	on Socke ap Screw	t Head Is	то	RX	TORX	PLUS	Triple Square	LHSTIX	Ref.)	Standard	Tightnin	g Torque	(Nm)
Screw dimension	Standard	Compact	High Strength	Standard	Button Head / Shoulder Head	Hexagon Socket Set Serews	т	E	ΙP	EP [EPL]	XZN	LH-S [LH-SS]	Grade 4.6	Grade 6.8	Grade 8.8	Grade 10.9	Grade 12.9
M2	4			1.5		0.9	T6/T8		6IP				0.12	0.24	0.32	0.45	0.54
M2.5	5			2		1.3	Т8		8IP		М3		0.25	0.49	0.65	0.92	1.1
М3	5.5			2.5	2	1.5	T10	E4	8IP/10IP	4EP	М3		0.43	0.87	1.16	1.63	1.96
M3.5	(6)						T15		10IP/15IP				0.68	1.37	1.82	2.56	3.08
M4	7			3	2.5	2	T20/T25	E5	15IP/20IP	5EP	M4	LH4S	1.01	2.02	2.7	3.79	4.54
M5	8			4	3	2.5	T25/T27	E6	20IP/25IP /27IP	6EP [8EPL]	M5	LH5S	2.04	4.09	5.47	7.67	9.18
М6	10			5	4	3	T30	E8	27IP/30IP	8EP [10EPL]	М6	LH6S	3.47	6.97	9.27	13	15.6
M7	11						T40	E8	40IP	8EP [12EPL]			5.85	11.6	15.5	21.8	26.2
М8	13	(12)		6	5	4	T40/T45	E10	40IP/45IP	10EP [14EPL]	M8	LH8S	8.41	16.9	22.5	31.6	37.9
M10	16 (17)	(14)		8	6	5	T50	E12	45IP/50IP	12EP [16EPL]	M10	LH10S [LH8SS]	16.7	33.4	44.5	62.6	75.2
M12	18 (19)	(17)	21 (22)	10	8	6	T55	E14	55IP	14EP [20EPL]	M12	LH12S [LH10SS]	29.1	58.3	77.6	109	131
M14	21 (22)	(19)		12			T55/T60	E14/E18	55IP/60IP	18EP [24EPL]	M14	LH14S [LH12SS]	46.4	92.7	124	174	209
M16	24	(22)	27	14	10	8	T60/T70	E16/E20	60IP/70IP	20EP [26EPL]	M16	LH16S [LH14SS]	72.3	145	194	271	325
M18	27	(24)		(14)			T70/T80	E24	80IP	24EP [30EPL]	M18		100	199	266	373	447
M20	30 (32)	(27/29)	32	17	12	10	T80/T90	E24	90IP	24EP [32EPL]			141	282	376	529	635
M22	34 (32/35)	(30/32)	36	(17)			T90/T100	E28	100IP	24EP [36EPL]			192	384	511	720	865
M24	36 (38)	(32/35)	41	19		12	T100	E32	100IP	32EP [40EPL]			244	488	650	915	1100
M27	41	(36)	46	(19)				E32		32EP			358	713	951	1340	1610
M30	46	(41)	50	22				E36		36EP			484	971	1290	1820	2180
M33	50	(46)		(24)				E40		40EP			661	1320	1760	2470	2970
M36	55 (54)	(50)		27				E44		44EP			848	1690	2260	3180	3810
M39	60 (58)	(55)		(27)									1100	2190	2920	4110	4930
M42	65 (63)			32									1350	2710	3610	5080	6080
M45	70 (67)			(32)									1700	3400	4540	6370	7630
M48	75 (71)			36									2030	4060	5440	7620	9120
M52	80 (77)			(36)									2640	5290	7040	9880	11800
M56	85			41									3270	6560	8710	12300	14800
M60	90												4080	8180	10900	15300	18300
M64	95			46									4930	9890	13100	18500	22300
M68	(100)												5970	12000	16000	22500	27000

\*Reference: Hexagon Head Bolt: ISO 4014-4018, 8676, 8768
High Strength Hexagon Bolt: JIS B 1196
Hexagon Socket Head Cap Screws: ISO 7380
Hexagon Socket Button Head Screws: ISO 7380
Hexagon Socket Set Screws: ISO 4026-4029
TORX T/E: TORX Standard TMH series
TORXPLUS IP/EP: TORXPLUS Standard CMH series
Triple Square: DIN 2324/2325
LHSTIX LH-S/SS: LH-S/SS Standard

TORX\* is a registered trademark of Acument Intellectual Properties, LLC.
TORX\* ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC.
TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

IOR Modes: is a registered trademark of Acument Intellectual Properties, LLC. IOR Modes: ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC. IOR Modes: est une marque déposée de Acument Intellectual Properties, LLC.

LMStüx'is a registered trademark of OSG CORPORATION System Engineering Department.

LMStüx'ist ein registriertes Markenzeichen der Firma OSG CORPORATION System Engineering Department.

LMStüx'est une marque déposée de OSG CORPORATION System Engineering Department.

<sup>\*</sup> Standard Tightening Torque: Calculated based on Torque Coefficient (K): 0.2 Axial Force (Ff): 60% of Proof Strength(o)

#### TORXº/ TORXslass BITS





# TORXº/ TORXuless SOCKETS

	S1 (S1)	S1 (mm)	S2 (mm)
Т6	6IP	1.7	1.2
T7	7IP	2.0	1.4
Т8	8IP	2.3	1.7
Т9	9IP	2.5	1.8
T10	10IP	2.7	2.0
T15	15IP	3.3	2.3
T20	20IP	3.9	2.8
T25	25IP	4.5	3.2
T27	27IP	5.0	3.6
T30	30IP	5.6	4.0
T40	40IP	6.7	4.8
T45	45IP	7.9	5.6
T50	50IP	8.9	6.2
T55	55IP	11.3	8.0
T60	60IP	13.3	9.5
T70	70IP	15.6	11.1
T80	80IP	17.6	12.7
T90	90IP	20.0	14.2
T100	100IP	22.2	15.8

S1 S2	$\bigcirc$	S1 (mm)	S2 (mm)
E4	4EP	3.7	2.7
E5	5EP	4.6	3.3
E6	6EP	5.6	4.0
E7	7EP	6.1	4.3
E8	8EP	7.4	5.3
E10	10EP	9.3	6.8
E11	11EP	9.9	7.1
E12	12EP	11.0	7.9
E14	14EP	12.8	9.2
E16	16EP	14.6	10.5
E18	18EP	16.5	11.9
E20	20EP	18.3	13.2
E22	22EP	20.1	14.8
E24	24EP	22.0	15.7
E26	26EP	23.7	17.5
E28	28EP	25.5	18.3
E30	30EP	27.3	20.0
E32	32EP	29.0	21.3

S1 S1	S1 (mm)	S2 (mm)
8PR	2.2	2.0
9PR	2.4	2.2
10PR	2.6	2.4
15PR	3.1	2.8
20PR	3.6	3.3
25PR	4.1	3.8
27PR	4.7	4.3
30PR	5.2	4.8
40PR	6.3	5.7
45PR	7.4	6.7
50PR	8.4	7.6
55PR	10.6	9.7

#### பார் (LH-S) SOCKETS

S <sub>1</sub>	S1 (mm)	S2 (mm)
LH3S	3.8	4.7
LH4S	4.5	6.0
LH5S	5.6	7.5
LH6S	6.8	9.0
LH7S	7.9	10.5
LH8S	9.0	12.0
LH10S	11.3	15.0
LH12S	13.6	18.0
LH14S	15.8	21.0
LH16S	18.1	24.0

#### **XZN BITS**

S <sub>2</sub> S <sub>1</sub>	S1 (mm)	S2 (mm)
M4	3.6	3.1
M5	4.8	4.1
M6	6.1	5.1
M8	7 <b>.</b> 3	6.1
M10	9.7	8.1
M12	11.5	9.7
M14	13.3	11.2
M16	15.7	13.2
M18	16.9	14.2

#### **Ribe CV BITS**

S2 W	W (mm)	S1 (mm)	S2 (mm)
M5	1.2	5.0	3.8
M6	1.3	6.0	4.5
M7	1.4	7.0	5.0
M8	1.8	8.0	6.0
M9	2.0	9.0	7.1
M10	2.3	10.0	7.4
M12	2.6	12.0	9.0
M13	3.1	13.0	11.0
M14	3.2	14.0	10.4
M16	3.6	16.0	11.9

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TORX\* est une marque déposée de Acument Intellectual Properties, LLC.

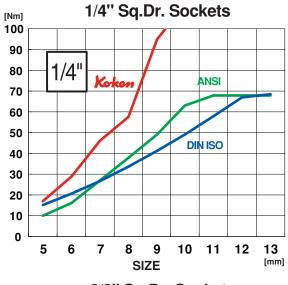
<u>TORXeces</u> is a registered trademark of Acument Intellectual Properties, LLC. <u>TORXeces</u> ist ein registriertes Markenzeichen der Firma Acument Intellectual Properties, LLC. <u>TORXeces</u> est une marque déposée de Acument Intellectual Properties, LLC.

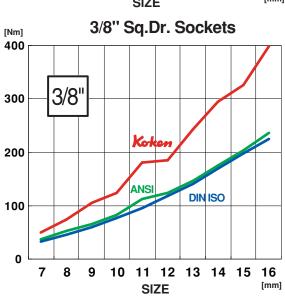
	kon	0"	Conver	sion Ta	ble: Am	4"	5"	Decima	I Inches	s-Millim 8"	eter 9"	10"	11"
in	dec.in.	0	25.4000	50.8000	76.2000	101.6000	Millimeter(m	152.4000	177.8000	203.2000	228.6000	254.0000	279.4000
1/64	0.01563	0.3969	25.7969	51.1969	76.5969	101.9969	127.3969	152.7969	178.1969	203.5969	228.9969	254.3969	279.7969
1/32	0.03125	0.7938	26.1938	51.5938	76.9938	102.3938	127.7938	153.1938	178.5938	203.9938	229.3938	254.7938	280.1938
3/64	0.04688	1.1906	26.5906	51.9906	77.3906	102.7906	128.1906	153.5906	178.9906	204.3906	229.7906	255.1906	280.5906
1/16	0.06250	1.5875	26.9875	52.3875	77.7875	103.1875	128.5875	153.9875	179.3875	204.7875	230.1875	255.5875	280.9875
5/64	0.07813	1.9844	27.3844	52.7844	78.1844	103.5844	128.9844	154.3844	179.7844	205.1844	230.5844	255.9844	281.3844
3/32	0.09375	2.3813	27.7813	53.1813	78.5813	103.9813	129.3813	154.7813	180.1813	205.5813	230.9813	256.3813	281.7813
7/64	0.10938	2.7781	28.1781	53.5781	78.9781	104.3781	129.7781	155.1781	180.5781	205.9781	231.3781	256.7781	282.1781
1/8		3.1750	28.5750	53.9750	79.3750	104.7750	130.1750	155.5750	180.9750	206.3750	231.7750	257.1750	282.5750
9/64	0.14063	3.5719	28.9719	54.3719	79.7719	105.1719	130.5719	155.9719	181.3719	206.7719	232.1719	257.5719	282.9719
5/32	0.15625	3.9688	29.3688	54.7688	80.1688	105.5688	130.9688	156.3688	181.7688	207.1688	232.5688	257.9688	283.3688
11/64	0.17188	4.3656	29.7656	55.1656	80.5656	105.9656	131.3656	156.7656	182.1656	207.5656	232.9656	258.3656	283.7656
3/16	0.18750	4.7625	30.1625	55.5625	80.9625	106.3625	131.7625	157.1625	182.5625	207.9625	233.3625	258.7625	284.1625
13/64	0.20313	5.1594	30.5594	55.9594	81.3594	106.7594	132.1594	157.5594	182.9594	208.3594	233.7594	259.1594	284.5594
7/32	0.21875	5.5563	30.9563	56.3563	81.7563	107.1563	132.5563	157.9563	183.3563	208.7563	234.1563	259.5563	284.9563
15/64	0.23438	5.9531	31.3531	56.7531	82.1531	107.5531	132.9531	158.3531	183.7531	209.1531	234.5531	259.9531	285.3531
1/4	0.25000	6.3500	31.7500	57.1500	82.5500	107.9500	133.3500	158.7500	184.1500	209.5500	234.9500	260.3500	285.7500
17/64	0.26563	6.7469	32.1469	57.5469	82.9469	108.3469	133.7469	159.1469	184.5469	209.9469	235.3469	260.7469	286.1469
9/32	0.28125	7.1438	32.5438	57.9438	83.3438	108.7438	134.1438	159.5438	184.9438	210.3438	235.7438	261.1438	286.5438
19/64 5/16	0.29688	7.5406	32.9406 33.3375	58.3406	83.7406 84.1375	109.1406	134.5406	159.9406	185.3406	210.7406 211.1375	236.1406	261.5406 261.9375	286.9406
21/64	0.31250 0.32813	7.9375 8.3344	33.7344	58.7375 59.1344	84.5344	109.5375 109.9344	134.9375 135.3344	160.3375 160.7344	185.7375 186.1344	211.5344	236.5375 236.9344	262.3344	287.3375 287.7344
11/32	0.34375	8.7313	34.1313	59.5313	84.9313	110.3313	135.7313	161.1313	186.5313	211.9313	237.3313	262.7313	288.1313
23/64	0.35938	9.1281	34.5281	59.9281	85.3281	110.7281	136.1281	161.5281	186.9281	212.3281	237.7281	263.1281	288.5281
3/8	0.37500	9.5250	34.9250	60.3250	85.7250	111.1250	136.5250	161.9250	187.3250	212.7250	238.1250	263.5250	288.9250
25/64	0.39063	9.9219	35.3219	60.7219	86.1219	111.5219	136.9219	162.3219	187.7219	213.1219	238.5219	263.9219	289.3219
13/32	0.40625	10.3188	35.7188	61.1188	86.5188	111.9188	137.3188	162.7188	188.1188	213.5188	238.9188	264.3188	289.7188
27/64	0.42188	10.7156	36.1156	61.5156	86.9156	112.3156	137.7156	163.1156	188.5156	213.9156	239.3156	264.7156	290.1156
7/16	0.43750	11.1125	36.5125	61.9125	87.3125	112.7125	138.1125	163.5125	188.9125	214.3125	239.7125	265.1125	290.5125
29/64	0.45313	11.5094	36.9094	62.3094	87.7094	113.1094	138.5094	163.9094	189.3094	214.7094	240.1094	265.5094	290.9094
15/32	0.46875	11.9063	37.3063	62.7063	88.1063	113.5063	138.9063	164.3063	189.7063	215.1063	240.5063	265.9063	291.3063
31/64	0.48438	12.3031	37.7031	63.1031	88.5031	113.9031	139.3031	164.7031	190.1031	215.5031 215.9000	240.9031	266.3031	291.7031
1/2	0.50000	12.7000	38.1000	63.5000	88.9000	114.3000	139.7000	165.1000	190.5000	216.2969	241.3000	266.7000	292.1000
33/64	0.51563	13.0969	38.4969	63.8969	89.2969	114.6969	140.0969	165.4969	190.8969		241.6969	267.0969	292.4969
17/32	0.53125	13.4938	38.8938	64.2938	89.6938	115.0938	140.4938	165.8938	191.2938	216.6938	242.0938	267.4938	292.8938
35/64	0.54688	13.8906	39.2906	64.6906	90.0906	115.4906	140.8906	166.2906	191.6906	217.0906	242.4906	267.8906	293.2906
9/16	0.56250	14.2875	39.6875	65.0875	90.4875	115.8875	141.2875	166.6875	192.0875	217.4875	242.8875	268.2875	293.6875
37/64	0.57813	14.6844	40.0844	65.4844	90.8844	116.2844	141.6844	167.0844	192.4844	217.8844	243.2844	268.6844	294.0844
19/32	0.59375	15.0813	40.4813	65.8813	91.2813	116.6813	142.0813	167.4813	192.8813	218.2813	243.6813	269.0813	294.4813
39/64	0.60938	15.4781	40.8781	66.2781	91.6781	117.0781	142.4781	167.8781	193.2781	218.6781	244.0781	269.4781	294.8781
5/8	0.62500	15.8750	41.2750	66.6750	92.0750	117.4750	142.8750	168.2750	193.6750	219.0750	244.4750	269.8750	295.2750
41/64	0.64063	16.2719	41.6719	67.0719	92.4719	117.8719	143.2719	168.6719	194.0719	219.4719	244.8719	270.2719	295.6719
21/32	0.65625	16.6688	42.0688	67.4688	92.8688	118.2688	143.6688	169.0688	194.4688	219.8688	245.2688	270.6688	296.0688
43/64	0.67188	17.0656	42.4656	67.8656	93.2656	118.6656	144.0656	169.4656	194.8656	220.2656	245.6656	271.0656	296.4656
11/16	0.68750	17.4625	42.8625	68.2625	93.6625	119.0625	144.4625	169.8625	195.2625	220.6625	246.0625	271.4625	296.8625
45/64	0.70313	17.8594	43.2594	68.6594	94.0594	119.4594	144.8594	170.2594	195.6594	221.0594	246.4594	271.8594	297.2594
23/32	0.71875	18.2563	43.6563	69.0563	94.4563	119.8563	145.2563	170.6563	196.0563	221.4563	246.8563	272.2563	297.6563
47/64	0.73438	18.6531	44.0531	69.4531	94.8531	120.2531	145.6531	171.0531	196.4531	221.8531	247.2531	272.6531	298.0531
3/4	0.75000	19.0500	44.4500	69.8500	95.2500	120.6500	146.0500	171.4500	196.8500	222.2500	247.6500	273.0500	298.4500
49/64	0.76563	19.4469	44.8469	70.2469	95.6469	121.0469	146.4469	171.8469	197.2469	222.6469	248.0469	273.4469	298.8469
25/32	0.78125	19.8438	45.2438	70.6438	96.0438	121.4438	146.8438	172.2438	197.6438	223.0438	248.4438	273.8438	299.2438
51/64	0.79688	20.2406	45.6406	71.0406	96.4406	121.8406	147.2406	172.6406	198.0406	223.4406	248.8406	274.2406	299.6406
13/16	0.81250	20.6375	46.0375	71.4375	96.8375	122.2375	147.6375	173.0375	198.4375	223.8375	249.2375	274.6375	300.0375
53/64	0.82813	21.0344	46.4344	71.8344	97.2344	122.6344	148.0344	173.4344	198.8344	224.2344	249.6344	275.0344	300.4344
27/32	0.84375	21.4313	46.8313	72.2313	97.6313	123.0313	148.4313	173.8313	199.2313	224.6313	250.0313	275.4313	300.8313
55/64	0.85938	21.8281	47.2281	72.6281	98.0281	123.4281	148.8281	174.2281	199.6281	225.0281	250.4281	275.8281	301.2281
7/8	0.87500	22.2250	47.6250	73.0250	98.4250	123.8250	149.2250	174.6250	200.0250	225.4250	250.8250	276.2250	301.6250
57/64	0.89063	22.6219	48.0219	73.4219	98.8219	124.2219	149.6219	175.0219	200.4219 200.8188	225.8219	251.2219	276.6219	302.0219
29/32	0.90625	23.0188	48.4188	73.8188	99.2188	124.6188	150.0188	175.4188		226.2188	251.6188	277.0188	302.4188
59/64	0.90625	23.4156	48.8156	74.2156	99.6156	125.0156	150.4156	175.8156	201.2156	226.6156	252.0156	277.4156	302.8156
15/16	0.93750	23.8125	49.2125	74.6125	100.0125	125.4125	150.8125	176.2125	201.6125	227.0125	252.4125	277.8125	303.2125
61/64	0.95313	24.2094	49.6094	75.0094	100.4094	125.8094	151.2094	176.6094	202.0094	227.4094	252.8094	278.2094	303.6094
31/32	0.96875	24.6063	50.0063	75.4063	100.8063	126.2063	151.6063	177.0063	202.4063	227.8063	253.2063	278.6063	304.0063
63/64	0.98438	25.0031	50.4031	75.8031	101.2031	126.6031	152.0031	177.4031	202.8031	228.2031	253.6031	279.0031	304.4031
in.	dec.in.	12"	13"	14"	15"	16"	17" Millimeter(m	18"	19"	20"	21"	22"	23"
	0	304.8000	330.2000	355.6000	381.0000	406.4000	431.8000	457.2000	482.6000	508.0000	533.4000	558.8000	584.2000
1/32	0.03125	305.5938	330.9938	356.3938	381.7938	407.1938	432.5938	457.9938	483.3938	508.7938	534.1938	559.5938	584.9938
1/16	0.06250	306.3875	331.7875	357.1875	382.5875	407.9875	433.3875	458.7875	484.1875	509.5875	534.9875	560.3875	585.7875
3/32	0.09375	307.1813	332.5813	357.9813	383.3813	408.7813	434.1813	459.5813	484.9813	510.3813	535.7813	561.1813	586.5813
	0.12500	307.9750	333.3750	358.7750	384.1750	409.5750	434.9750	460.3750	485.7750	511.1750	536.5750	561.9750	587.3750
5/32	0.15625	308.7688	334.1688 334.9625	359.5688	384.9688 385.7625	410.3688 411.1625	435.7688	461.1688	486.5688	511.9688 512.7625	537.3688	562.7688	588.1688 588.9625
3/16 7/32	0.18750 0.21875	309.5625 310.3563	335.7563	360.3625 361.1563	386.5563	411.9563	436.5625 437.3563	461.9625 462.7563	487.3625 488.1563	513.5563	538.1625 538.9563	563.5625 564.3563	589.7563
1/4	0.25000	311.1500	336.5500	361.9500	387.3500	412.7500	438.1500	463.5500	488.9500	514.3500	539.7500	565.1500	590.5500
9/32	0.28125	311.9438	337.3438	362.7438	388.1438	413.5438	438.9438	464.3438	489.7438	515.1438	540.5438	565.9438	591.3438
5/16	0.31250	312.7375	338.1375	363.5375	388.9375	414.3375	439.7375	465.1375	490.5375	515.9375	541.3375	566.7375	592.1375
11/32	0.34375	313.5313	338.9313	364.3313	389.7313	415.1313	440.5313	465.9313	491.3313	516.7313	542.1313	567.5313	592.9313
3/8	0.37500	314.3250	339.7250	365.1250	390.5250	415.9250	441.3250	466.7250	492.1250	517.5250	542.9250	568.3250	593.7250
13/32	0.40625	315.1188	340.5188	365.9188	391.3188	416.7188	442.1188	467.5188	492.9188	518.3188	543.7188	569.1188	594.5188
7/16	0.43750	315.9125	341.3125	366.7125	392.1125	417.5125	442.9125	468.3125	493.7125	519.1125	544.5125	569.9125	595.3125
15/32	0.46875	316.7063	342.1063	367.5063	392.9063	418.3063	443.7063	469.1063	494.5063	519.9063	545.3063	570.7063	596.1063
	0.50000	317.5000	342.9000	368.3000	393.7000	419.1000	444.5000	469.9000	495.3000	520.7000	546.1000	571.5000	596.9000
17/32	0.53125	318.2938	343.6938	369.0938	394.4938	419.8938	445.2938	470.6938	496.0938	521.4938	546.8938	572.2938	597.6938
9/16	0.56250	319.0875	344.4875	369.8875	395.2875	420.6875	446.0875	471.4875	496.8875	522.2875	547.6875	573.0875	598.4875
19/32	0.59375	319.8813	345.2813	370.6813	396.0813	421.4813	446.8813	472.2813	497.6813	523.0813	548.4813	573.8813	599.2813
5/8	0.62500	320.6750	346.0750	371.4750	396.8750	422.2750	447.6750	473.0750	498.4750	523.8750	549.2750	574.6750	600.0750
21/32	0.65625	321.4688	346.8688	372.2688	397.6688	423.0688	448.4688	473.8688	499.2688	524.6688	550.0688	575.4688	600.8688
11/16	0.68750	322.2625	347.6625	373.0625	398.4625	423.8625	449.2625	474.6625	500.0625	525.4625	550.8625	576.2625	601.6625
23/32	0.71875	323.0563	348.4563	373.8563	399.2563	424.6563	450.0563	475.4563	500.8563	526.2563	551.6563	577.0563	602.4563
3/4	0.75000	323.8500	349.2500	374.6500	400.0500	425.4500	450.8500	476.2500	501.6500	527.0500	552.4500	577.8500	603.2500
25/32	0.78125	324.6438	350.0438	375.4438	400.8438	426.2438	451.6438	477.0438	502.4438	527.8438	553.2438	578.6438	604.0438
13/16	0.81250	325.4375	350.8375	376.2375	401.6375	427.0375	452.4375	477.8375	503.2375	528.6375	554.0375	579.4375	604.8375
27/32	0.84375	326.2313	351.6313	377.0313	402.4313	427.8313	453.2313	478.6313	504.0313	529.4313	554.8313	580.2313	605.6313
7/8	0.87500	327.0250	352.4250	377.8250	403.2250	428.6250	454.0250	479.4250	504.8250	530.2250	555.6250	581.0250	606.4250
29/32	0.90625	327.8188	353.2188	378.6188	404.0188	429.4188	454.8188	480.2188	505.6188	531.0188	556.4188	581.8188	607.2188
15/16	0.93750	328.6125	354.0125	379.4125	404.8125	430.2125	455.6125	481.0125	506.4125	531.8125	557.2125	582.6125	608.0125
31/32	0.96875	329.4063	354.8063	380.2063	405.6063	431.0063	456.4063	481.8063	507.2063	532.6063	558.0063	583.4063	608.8063

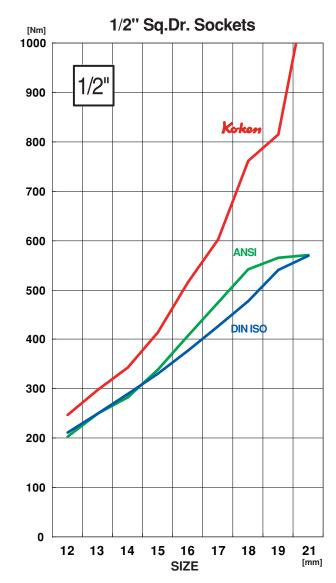


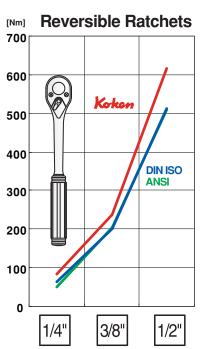


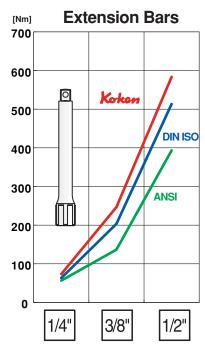


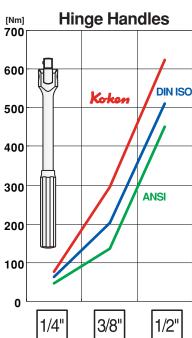












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6768RK	288	P2201AM	051	RS2405A/9	034	RS4012M/10	096
6770	117	P2251M	051	RS2405M/11	034	RS4020/6	098
6785	117	P2258M	051	RS2410M/11	035	RS4025/9	099
6788	117	P2285Z	024	RS2425/6	035	RS4025/9 (IP)	099
8012M	119	P4241M	110	RS2445A/9	039	RS4027/7	100
8102M	120, 270	PK1301C	238	RS2450MS/6	036	RS4127/6	132
8225M	122	PK1302C	238	RS3010A/8	065	RS4129/5	133
8400A	119	PK1401C	238	RS3010M/8	065	RS4300A/10	091
8400M	119	PK1402C	238	RS3010MZ/8	027	RS4300M/10	091
8405A	119	PK1600C	238	RS3015M/8	067	RS4300M/12	091
						·	
8405M	119	PK166PS/6	166	RS3020/6	068	RS4305A/10	091
8749	121	PK168PS/6	167	R\$3020/7	068	RS4305M/10	091
8749RK	287	PK1801C	238	RS3025/8 (IP)	071	RS4310M/10	092
8760	120	PK2346/6	082	RS3025/8 (T)	069	R\$4325/7	092
8768	121	PK2760/6	046	RS3025/8-L100R	069	RS4400A/10	087
8768RK	288	PK2763/6	046	RS3025/8-L100RH	070	RS4400LH/6	090
8770	120	PK3760/6	080	RS3025/9 (PR)	072	RS4400MZ/10	031
8785	121	PK3763/6	080	RS3025/9 (TH)	070	RS4400W/8	088
8788	121	PK4760/5	107	RS3025Z/8	027	RS4401M/10	086
8866A	120	PK4763/5	107	RS3027/5	072	RS4405A/10	087
AG112A	147	PW6	271	RS3127/8	131	RS4405W/8	088
AG112F	147	PW8	271	RS3129/6	133	RS4406M/10	086
	147	PW8L			057		088
AG112H			271	RS3300A/9		RS4410M/10	
AL4400M	266	PW8P	271	RS3300FN/6	256	RS4425/6-EPL	089
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AR14300	266	R810B	140	RS3300MZ/8	026	RSAL	030
AS2305A	266 038	R810C	140 140	RS3300WZ/8 RS3300W/7	026 059	RSAL200-1/4×12	030
AS2305A	038	R810C	140	R\$3300W/7	059	RSAL200-1/4×12	030
AS2305A AS2405A	038 035	R810C R810D	140 140	RS3300W/7 RS3300X/8	059 056	RSAL200-1/4×12 RSAL200-3/8×8	030 030
AS2305A AS2405A AS2445A	038 035 039	R810C R810D R810E	140 140 140	RS3300W/7 RS3300X/8 RS3300XA/9	059 056 056	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12	030 030 030
AS2305A AS2405A AS2445A BD004	038 035 039 281	R810C R810D R810E RS13012M/8	140 140 140 183	RS3300W/7 RS3300X/8 RS3300XA/9 RS3300XZ/12	059 056 056 025	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10	030 030 030 030
AS2305A AS2405A AS2445A BD004 BD008E (12P)	038 035 039 281 279	R810C R810D R810E RS13012M/8 RS13025/8	140 140 140 183 183	RS3300W/7 RS3300X/8 RS3300XA/9 RS3300XZ/12 RS3300XZ/8	059 056 056 025 025	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10	030 030 030 030 030
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE	038 035 039 281 279 279	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9	140 140 140 183 183 178	RS3300W/7 RS3300X/8 RS3300XA/9 RS3300XZ/12 RS3300XZ/8 RS3305A/9	059 056 056 025 025 057	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10	030 030 030 030 030 038
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E	038 035 039 281 279 279 278	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9	140 140 140 183 183 178 175	RS3300W/7 RS3300X/8 RS3300XA/9 RS3300XZ/12 RS3300XZ/8 RS3305A/9 RS3305M/12	059 056 056 025 025 057	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP)	030 030 030 030 030 038 035
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF	038 035 039 281 279 279 278 279	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9 RS13401MS/5	140 140 140 183 183 178 175	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3300XZ/8 RS3305A/9 RS3305M/12 RS3305W/7	059 056 056 025 025 057 057	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR)	030 030 030 030 030 038 035 071
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE	038 035 039 281 279 279 278 279 278	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9	140 140 140 183 183 178 175 174	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3305X/9 RS3305M/12 RS3305W/7 RS3305W/7	059 056 056 025 025 057 057 059	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR)	030 030 030 030 038 035 071 072 054
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014XE-SF	038 035 039 281 279 279 278 279 278 279	R810C R810D R810E RS13012M/8 RS13001X/9 RS13401M/9 RS13401M/5 RS14012M/10 RS14025/6	140 140 140 183 183 178 175 174 198	RS3300W/7 RS3300X/8 RS3300XZ/12 RS3300XZ/12 RS3305A/9 RS3305M/12 RS3305W/7 RS3305X/8 RS3305X/9	059 056 056 025 025 057 057 059 056	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR) RSX425/14 S3240A	030 030 030 030 038 035 071 072 054
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE	038 035 039 281 279 279 278 279 278	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9 RS13401MS/5 RS14012M/10	140 140 140 183 183 178 175 174	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3305X/9 RS3305M/12 RS3305W/7 RS3305W/7	059 056 056 025 025 057 057 059	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR)	030 030 030 030 038 035 071 072 054
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014XE-SF	038 035 039 281 279 279 278 279 278 279	R810C R810D R810E RS13012M/8 RS13001X/9 RS13401M/9 RS13401M/5 RS14012M/10 RS14025/6	140 140 140 183 183 178 175 174 198	RS3300W/7 RS3300X/8 RS3300XZ/12 RS3300XZ/12 RS3305A/9 RS3305M/12 RS3305W/7 RS3305X/8 RS3305X/9	059 056 056 025 025 057 057 059 056	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR) RSX425/14 S3240A	030 030 030 030 038 035 071 072 054
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014SE BD014XE-SF BD016E BD016JE	038 035 039 281 279 278 279 278 279 278 279 280 280	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9 RS13401M/9 RS14012M/10 RS14025/6 RS14124/7 RS14301X/10	140 140 140 183 183 178 175 174 198 198 267	RS3300W/7 RS3300X/8 RS3300XA/9 RS3300XZ/12 RS3305X/9 RS3305M/12 RS3305M/7 RS3305X/8 RS3305X/9 RS3310M/12 RS3310M/12 RS3325/9	059 056 056 025 025 057 057 059 056 056 058	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR) RSX425/14 S3240A S3240M S4240A	030 030 030 030 038 035 071 072 054 084
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014XE-SF BD016E BD016JE BD017E	038 035 039 281 279 278 279 278 279 278 279 280 280	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9 RS13401MS/5 RS14012M/10 RS14025/6 RS14124/7 RS14301X/10 RS14401M/10	140 140 140 183 183 178 175 174 198 198 267 192 189	RS3300W/7 RS3300X/8 RS3300XA/9 RS3300XZ/12 RS3300XZ/8 RS3305A/9 RS3305M/12 RS3305W/7 RS3305X/8 RS3305XA/9 RS3310M/12 RS3325/9 RS3340M/8	059 056 056 025 025 057 057 059 056 056 058 059	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR) RSX425/14 S3240A S3240M S4240A S4240A	030 030 030 030 038 035 071 072 054 084 084 110
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014SE BD016JE BD016JE BD017E BD018	038 035 039 281 279 279 278 279 278 279 280 280 280 280	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9 RS13401M/5 RS14012M/10 RS14025/6 RS14124/7 RS14301X/10 RS14401M/10 RS14401M/10	140 140 140 183 183 178 175 174 198 198 267 192 189	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3300XZ/8 RS3305M/9 RS3305M/7 RS3305X/8 RS3305X/8 RS3310M/12 RS3310M/12 RS3325/9 RS3340M/8 RS3350M/5	059 056 056 025 025 057 057 059 056 058 058 059 062	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR) RSX425/14 S3240A S3240M S4240A S4240M SP4122	030 030 030 030 038 035 071 072 054 084 084 110 110
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014XE-SF BD016B BD016JE BD017E BD018 BD022	038 035 039 281 279 278 279 278 279 280 280 280 281 282	R810C R810D R810E RS13012M/8 RS13025/8 RS13301X/9 RS13401M/9 RS13401MS/5 RS14012M/10 RS14025/6 RS14124/7 RS14301X/10 RS14401M/10 RS14401M/55 RS14405M/11	140 140 140 183 183 178 175 174 198 198 267 192 189 190	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3300XZ/2 RS3305M/9 RS3305M/12 RS3305W/7 RS3305X/8 RS3305X/9 RS3310M/12 RS3325/9 RS3340M/8 RS3350M/5 RS3350X/4	059 056 056 025 025 057 057 059 056 058 059 062 060	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (PR) RSX425/14 S3240A S3240M S4240A S4240M SP4122 SP4300M	030 030 030 030 038 035 071 072 054 084 110 110 256 256
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014XE-SF BD016E BD016JE BD017E BD018 BD022 BD023E	038 035 039 281 279 278 279 278 279 280 280 280 281 282	R810C R810D R810E RS13012M/8 RS130125/8 RS13301X/9 RS13401M/9 RS13401M/5 RS14012M/10 RS14025/6 RS14124/7 RS14301X/10 RS14401M/10 RS14401M/10 RS14401M/5 RS14405M/11 RS2010A/8	140 140 140 183 183 178 175 174 198 198 267 192 189 190 188 041	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3305X/9 RS3305M/12 RS3305W/7 RS3305X/8 RS3305XA/9 RS3310M/12 RS3325/9 RS3340M/8 RS3350M/5 RS3350X/4 RS3400A/9	059 056 056 025 025 057 057 059 056 058 059 062 060 056	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (IP) RSX425/14 S3240A S3240M S4240A S4240M SP4122 SP4300M SP4305M	030 030 030 030 038 035 071 072 054 084 084 110 110 256 256
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014XE-SF BD016E BD016JE BD017E BD017E BD018 BD022 BD023E BD024E	038 035 039 281 279 278 279 278 279 280 280 280 281 282	R810C R810D R810E RS13012M/8 RS130125/8 RS13301X/9 RS13401M/9 RS13401M/5 RS144012M/10 RS14025/6 RS14124/7 RS14301X/10 RS14401M/10 RS14401M/5/5 RS14405M/11 RS2010A/8 RS2010M/7	140 140 140 183 183 178 175 174 198 198 267 192 189 190 188 041	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3305X/9 RS3305M/12 RS3305W/7 RS3305X/8 RS3305XA/9 RS3310M/12 RS3325/9 RS3340M/8 RS3350M/5 RS3350M/5 RS3350X/4 RS3400A/9 RS3400LH/7	059 056 056 025 025 057 057 059 056 056 058 059 062 060 056	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (IP) RSX425/14 S3240A S3240M S4240A S4240M SP4122 SP4300M SP4305M ST4027	030 030 030 030 038 035 071 072 054 084 0110 110 256 256 256
AS2305A AS2405A AS2445A BD004 BD008E (12P) BD011SE BD014E BD014E-SF BD014SE BD014XE-SF BD016E BD016JE BD017E BD018 BD022 BD023E	038 035 039 281 279 278 279 278 279 280 280 280 281 282	R810C R810D R810E RS13012M/8 RS130125/8 RS13301X/9 RS13401M/9 RS13401M/5 RS14012M/10 RS14025/6 RS14124/7 RS14301X/10 RS14401M/10 RS14401M/10 RS14401M/5 RS14405M/11 RS2010A/8	140 140 140 183 183 178 175 174 198 198 267 192 189 190 188 041	RS3300W/7 RS3300X/8 RS3300XZ/9 RS3300XZ/12 RS3305X/9 RS3305M/12 RS3305W/7 RS3305X/8 RS3305XA/9 RS3310M/12 RS3325/9 RS3340M/8 RS3350M/5 RS3350X/4 RS3400A/9	059 056 056 025 025 057 057 059 056 058 059 062 060 056	RSAL200-1/4×12 RSAL200-3/8×8 RSAL300-3/8×12 RSAL300-1/2×10 RSAS2305A/10 RSAS2405A/10 RSX025/11 (IP) RSX025/11 (IP) RSX425/14 S3240A S3240M S4240A S4240M SP4122 SP4300M SP4305M	030 030 030 030 038 035 071 072 054 084 084 110 110 256 256

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